

AlphaPlus® 1-Decene

Version 2.17

Revision Date 2025-06-16

According to Regulation (I	EC) No. 1907/2006	6, Regulation (EC) No. 2020/878
		e/mixture and of the company/undertaking
1		
Product information		
Product Name Material EC-No.Registration r	: 112850	Plus® 1-Decene 00, 1095875, 1068252, 1037000, 1015428, 1036999
Chemical name	CAS-No.	Legal Entity
	EC-No. Index No.	Registration number
1-Decene	872-05-9	
	212-819-2	Chevron Phillips Chemical Company LP 01-2119486878-12-0006
1-Decene	872-05-9	
	212-819-2	Chevron Phillips Chemicals International NV 01-2119486878-12-0024
2		
Relevant identified u	ses of the substa	nce or mixture and uses advised against
Relevant Identified Us Supported	Use as Formu Use in Use in Use in Use in Industr	s an intermediate lation coatings – industrial coatings – professional Coatings - Consumer Oil and Gas field drilling and production operations -
3 Details of the supplie	er of the safety da	ita sheet
Company	Norma 9500 L	on Phillips Chemical Company LP I Alpha Olefins (NAO) akeside Blvd. oodlands, TX 77381
Local	Airport	-
	Respor	equests: (800) 852-5530 nsible Party: Product Safety Group sds@cpchem.com
DS Number:1000000680	89	1/88

SAFETY DATA SHEET

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Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: POISON CENTER MILAN - Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information **Responsible Department** Product Safety and Toxicology Group

SDS Number:100000068089

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E-mail address Website

SDS@CPChem.com : www.CPChem.com

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SECTION 2: Hazards identification

2.1

Classification of the substance or mixture **REGULATION (EC) No 1272/2008**

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Flammable liquids, Category 3

Aspiration hazard, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



	Signal Word :	Danger	
I	Hazard Statements :	H226 H304	Flammable liquid and vapor. May be fatal if swallowed and enters airways.
		H410	Very toxic to aquatic life with long lasting effects.
I	Precautionary Statements :	Prevention: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P273 Response:	Avoid release to the environment.
		P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
		P331	Do NOT induce vomiting.
		P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
		P391	Collect spillage.

Hazardous ingredients which must be listed on the label: •

872-05-9 1-Decene

2.3

Other hazards

nh	aPlus® 1-Dece	ne		SA	FETY DATA SHE		
•	on 2.17			Revis	sion Date 2025-06-		
	Results of PBT and vP assessment	be ei persi	substance/mixture conta ther persistent, bioaccun istent and very bioaccum gher.	nulative and toxic	c (PBT), or very		
	ndocrine disrupting roperties	cons to R (EU)	substance/mixture does sidered to have endocrine EACH Article 57(f) or Col 2017/2100 or Commissi Is of 0.1% or higher.	e disrupting prop mmission Delega	erties according ated regulation		
СТІ	ON 3: Composition/i	nformation on	ingredients				
S	ynonyms	NAO Dece	ene-n-1 10 ene-1 (C10) H20)				
М	lolecular formula	: C10H	120				
н	azardous ingredients	5					
	Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs		
1-	-Decene	872-05-9 212-819-2	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	96 - 100	M [Acute]=1 M [Chronic]=1		
2-	-Butyl-1-Hexene	6795-79-5	Flam. Liq. 3; H226 Asp. Tox. 1; H304	1 - 5			
2-	-Ethyl-1-Octene	51655-64-2	Flam. Liq. 3; H226 Asp. Tox. 1; H304	1 - 5			
F	or the full text of the H	Statements mo	entioned in this Section, s	see Section 16.			
СТІ	ON 4: First aid meas	ures					
	escription of first-aid						
G	eneral advice	shee	e out of dangerous area. t to the doctor in attendar us, potentially fatal pneur	nce. Material ma	ay produce a		
lf	inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.					
In	case of skin contact	ct : If on skin, rinse well with water. If on clothes, remove clothes.					
In	case of eye contact	: Flush	n eyes with water as a pre	ecaution. Remo	ve contact		
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			lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
	If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
	Most important symptoms a Notes to physician	and	effects, both acute and delayed
	Symptoms	:	No data available.
.3	Risks Indication of any immediate	: e m	No data available. edical attention and special treatment needed
	Treatment	:	No data available.
SE(CTION 5: Firefighting measu	res	
	Flash point	:	49°C (120°F) Method: closed cup
	Autoignition temperature	:	210°C (410°F)
.1	Extinguishing media		
	Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
	Unsuitable extinguishing media	:	High volume water jet.
5.2	Special hazards arising fro Specific hazards during fire fighting	mt :	
5.3	Advice for firefighters Special protective	:	Wear self-contained breathing apparatus for firefighting if
	equipment for fire-fighters		necessary.
	Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
	Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
	Hazardous decomposition products	:	Carbon oxides.
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SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors can accumulate in low areas. 6.2 Environmental precautions Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillege if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. 6.3 Methods and materials for containment and cleaning up Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculte) and place in container for disposal according to local / national regulations (see section 13). 6.4 Reference to other sections Reference to other sections : For personal protection see section 8. For disposal considerations see section 13. SECTION 7: Handling and storage : Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking, should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient arexchange and/or exhaust in work rows. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open filames, hot surfaces and sourc									
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SECTION 8: Exposure controls/personal protection

8.1

Control parameters

PNEC	: Fresh water Value: 0,0012 mg/l
PNEC	: Sea water Value: 0,0012 mg/l
PNEC	: Fresh water sediment Value: 2,14 mg/kg
PNEC	: Sea sediment Value: 2,14 mg/kg
PNEC	: Soil Value: 0,43 mg/kg

8.2

Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

For additional details, see the Exposure Scenario in the Annex portion

SECTION 9: Physical and chemical properties

9

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9.1	Information on basic physica	al a	and chemical properties	
	Appearance			
	Form Physical state Color	:	liquid liquid Clear, colorless	
	Safety data			
	Flash point	:	49°C (120°F) Method: closed cup	
	Lower explosion limit	:	0,7 %(V)	
	Upper explosion limit	:	5,9 %(V)	
	Oxidizing properties	:	no	
	Autoignition temperature	:	210°C (410°F)	
	Thermal decomposition	:	No data available	
	Molecular formula	:	C10H20	
	Molecular weight	:	140,3 g/mol	
	рН	:	Not applicable	
	Freezing point	:	-66°C (-87°F)	
	Pour point		No data available	
	Boiling point/boiling range	:	170,56°C (339,01°F)	
	Vapor pressure	:	0,21 kPa at 25°C (77°F)	
			2,30 kPa at 65°C (149°F)	
SDS	S Number:100000068089			8/88

AlphaPlus® 1-Decene	
/ersion 2.17	Revision Date 2025-06-7
Relative density	: 0,75 at 15,6 °C (60,1 °F)
Density	: 745 kg/m3 at 15°C (59°F)
	740 kg/m3 at 20°C (68°F)
	717 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: 1,1 cSt at 20°C (68°F)
Relative vapor density	: 4,84 (Air = 1.0)
Evaporation rate	: No data available
0.1	
	: Stable at normal ambient temperature and pressure.
0.1 Reactivity	
0.1 Reactivity	
0.1 Reactivity 0.2 Chemical stability	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature
0.1 Reactivity 0.2 Chemical stability	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.2 Chemical stability 0.3	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
0.1 Reactivity 0.2 Chemical stability 0.3 Possibility of hazardous	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. reactions Hazardous reactions: Hazardous polymerization does not
0.1 Reactivity 0.2 Chemical stability 0.3 Possibility of hazardous	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. reactions Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied as
0.1 Reactivity 0.2 Chemical stability 0.3 Possibility of hazardous	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. reactions Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied as directed. Hazardous reactions: Vapors may form explosive mixture with
0.1 Reactivity 0.2 Chemical stability 0.3 Possibility of hazardous Hazardous reactions	 Stable at normal ambient temperature and pressure. This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. reactions Hazardous reactions: Hazardous polymerization does not occur. Further information: No decomposition if stored and applied as directed. Hazardous reactions: Vapors may form explosive mixture with air.

AlphaPlus® 1-Decene	SAFETY DATA SHEE
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Thermal decomposition	: No data available
I0.6 Hazardous decomposition products	: Carbon oxides
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
1.1 Information on toxicologica	leffects
Acute oral toxicity	
1-Decene	: LD50: > 3.575 mg/kg Species: Rat Sex: male and female Method: Fixed Dose Method Information given is based on data obtained from similar substances.
Acute inhalation toxicity	
1-Decene	 LC50: > 2,1 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances. Not classified due to data which are conclusive although insufficient for classification.
Acute dermal toxicity	
1-Decene	 LD50: > 2.000 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.
Skin irritation	
1-Decene	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
Eye irritation 1-Decene	: No eye irritation
Sensitization	
SDS Number:100000068089	10/88

IphaPlus® 1-Decene	SAFETY DATA SHEE
ersion 2.17	Revision Date 2025-06-
1-Decene	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Repeated dose toxicity	
1-Decene	 Species: Rat, Male and female Sex: Male and female Application Route: Oral Dose: 0, 100, 500, 1000 mg/kg Exposure time: 13 wks Number of exposures: 7 d/wk NOEL: 1.000 mg/kg Method: OCED Guideline 408 Information given is based on data obtained from similar substances.
	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 0, 300, 1000, 3000 ppm Exposure time: 13 wks Number of exposures: 6 hr/d, 5 d/wk NOEL: 3000 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.
Genotoxicity in vitro	
1-Decene	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Guideline 473 Result: negative
Genotoxicity in vivo	
1-Decene	: Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
1-Decene	: Species: Rat Sex: male Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg
DS Number:100000068089	11/88

	SAFETY DATA SHEE
IphaPlus® 1-Decene	
ersion 2.17	Revision Date 2025-06-1
	Method: OECD Guideline 421 NOAEL Parent: 1.000 mg/kg NOAEL F1: 1.000 mg/kg
AlphaPlus® 1-Decene	
Aspiration toxicity	 May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
1-Decene	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
l.2 Information on other haz	ards
AlphaPlus® 1-Decene Further information Endocrine disrupting properties	 Solvents may degrease the skin. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
ECTION 12: Ecological infor	mation
2.1 Toxicity	
Toxicity to fish	
Toxicity to fish 1-Decene	: LC50: 0,12 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
1-Decene	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar
1-Decene	Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
1-Decene Toxicity to daphnia and c	 Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances. other aquatic invertebrates EC50: 0,56 - 1 mg/l Exposure time: 48 h Species: Daphnia
1-Decene Toxicity to daphnia and c 1-Decene	 Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances. other aquatic invertebrates EC50: 0,56 - 1 mg/l Exposure time: 48 h Species: Daphnia

AlphaPlus® 1-Decene	SAFETY DATA SHEE
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	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Method: OECD Test Guideline 201
M-Factor dec-1-ene	: M-Factor (Acute Aquat. Tox.) 1
	M-Factor (Chron. Aquat. Tox.) 1
Toxicity to daphnia and ot	her aquatic invertebrates (Chronic toxicity)
1-Decene	: NOEC: 0,0194 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 211
2.2 Persistence and degradabi	ility
Biodegradability	: This material is expected to be readily biodegradable.
2.3 Bioaccumulative potential Elimination information (pers Bioaccumulation	
1-Decene	: No data available
2.4 Mobility in soil	
Mobility	
1-Decene	: No data available
12.5 Results of PBT and vPvB a Results of PBT assessment	 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
2.6 Endocrine disrupting prop	erties
Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
2.7 Other adverse effects	

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Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.
12.8 Additional Information	
Ecotoxicology Assessment	
Short-term (acute) aquatic haz 1-Decene	zard : Very toxic to aquatic life.
Long-term (chronic) aquatic ha 1-Decene	azard : Very toxic to aquatic life with long lasting effects.
SECTION 13: Disposal considera	tions
13.1	
Waste treatment methods	ertains only to the product as shipped.
may meet the criteria of a haze other State and local regulatio regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for a necessary to make a correct determination. If this material is te, federal law requires disposal at a licensed hazardous waste
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
For additional details, see the	Exposure Scenario in the Annex portion
SECTION 14: Transport information	ion
shipments in non-bulk packa Consult the appropriate domes	hown here are for bulk shipments only, and may not apply to ages (see regulatory definition). stic or international mode-specific and quantity-specific Dangerous nal shipping description requirements (e.g., technical name or names,
etc.) Therefore, the informatio	on shown here, may not always agree with the bill of lading shipping lashpoints for the material may vary slightly between the SDS and the

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

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Testing (ASTM D4206) has shown product o	does not sustain combustion.		
IMO / IMDG (INTERNATIONAL MARITIME DA UN3295, HYDROCARBONS, LIQUID, N.O. DECENE)	ANGEROUS GOODS) S., 3, III, (49 °C c.c.), MARINE POLLUTANT, (1-		
IATA (INTERNATIONAL AIR TRANSPORT AS UN3295, HYDROCARBONS, LIQUID, N.O.			
ADR (AGREEMENT ON DANGEROUS GOOD UN3295, HYDROCARBONS, LIQUID, N.O. HAZARDOUS, (1-DECENE)			
RID (REGULATIONS CONCERNING THE INT DANGEROUS GOODS (EUROPE)) 30,UN3295,HYDROCARBONS, LIQUID, N.C DECENE)	ERNATIONAL TRANSPORT OF D.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-		
ADN (EUROPEAN AGREEMENT CONCERNI OF DANGEROUS GOODS BY INLAND WATE UN3295, HYDROCARBONS, LIQUID, N.O. DECENE) For Tank Vessels and/or Barges: UN3295, HYDROCARBONS, LIQUID, N.O. HAZARDOUS, (1-Decene)	ERWAYS) S., 3, III, ENVIRONMENTALLY HAZARDOUS, (1-		
Other information : Decene, S.T Maritime transport in bulk according to IMO	·		
SECTION 15: Regulatory information			
15.1 Safety, health and environmental regulation National legislation	s/legislation specific for the substance or mixture		
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)			
Water hazard class : WGK 3 highly hazardous to water (Germany)			
15.2 Chemical Safety Assessment			
Components : dec-1-ene	A Chemical Safety Assessment 212-819-2 has been carried out for this substance.		

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Major Accident Hazard : Legislation	96/82/EC Update: 2003 Flammable. 6 Quantity 1: 5.000 t Quantity 2: 50.000 t
:	96/82/EC Update: 2003 Dangerous for the environment 9a Quantity 1: 100 t Quantity 2: 200 t
:	ZEU_SEVES3 Update: FLAMMABLE LIQUIDS P5c Quantity 1: 5.000 t Quantity 2: 50.000 t
:	96/82/EC Update: 2003 Flammable. 6 Quantity 1: 5.000 t Quantity 2: 50.000 t
:	ZEU_SEVES3 Update: ENVIRONMENTAL HAZARDS E1 Quantity 1: 100 t Quantity 2: 200 t
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Description of this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory

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SECTION 16: Other information

NFPA Classification	: Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0	2
Further information		
Legacy SDS Number	: PE0018	

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AIIC	Covernment Industrial Llugionista		
AIIC	Government Industrial Hygienists		
	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentra
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act

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	New Chemical Substances		
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapor.
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- H304 May be fatal if swallowed and enters airways.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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Annex: Exposure Scenarios

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ES 2	Use as an intermediate; Industrial uses (SU3).	
ES 3	Formulation; Industrial uses (SU3).	
ES 4	Use in coatings – industrial; Industrial uses (SU3).	
ES 5	Use in coatings – professional; Professional uses (SU22).	
ES 6	Use in Coatings - Consumer; Consumer uses (SU21).	
ES 7	Use in Oil and Gas field drilling and production operations - Industrial; Industrial uses (SU3).	
ES 8	8 Use in polymer production – industrial; Industrial uses (SU3).	

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ES 1: Manufacture; Industrial uses (SU3). 1.1. Title section Exposure Scenario name : Manufacture Structured Short Title : Manufacture; Industrial uses (SU3). Substance : dec-1-ene EC-No_212-819-2 Environment CS 1 Manufacture ERC1, ERC4 Worker CS 2 General measures applicable to all activities, General measures (skin PROC1 irritants) CS 3 General measures applicable to all activities, General measures (skin PROC2 irritants) CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 7 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 9 Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures SDS Number:10000068089 21/88				
Exposure Scenario name : Manufacture Structured Short Title : Manufacture; Industrial uses (SU3). Substance : dec-1-ene EC-No.: 212-819-2 Environment ERC1, ERC4 Worker ERC1, ERC4 CS 2 General measures applicable to all activities, General measures (skin Irritants) PROC2 CS 3 General measures applicable to all activities, General measures (skin Irritants) PROC3 CS 4 General measures applicable to all activities, General measures (skin Irritants) PROC3 CS 5 General measures applicable to all activities, General measures (skin Irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin Irritants) PROC8a CS 6 General measures applicable to all activities, General measures (skin Irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin Irritants) PROC8a CS 8 General measures applicable to all activities, General measures (skin Irritants) PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characte	ES 1: Manufacture	, Industrial uses (SU3).		
Structured Short Title : Manufacture; Industrial uses (SU3). Substance : dec-1-ene EC:No:: 212-819-2 Environment ERC1, ERC4 Worker ERC1, ERC4 CS 1 Manufacture ERC1, ERC4 Worker Environment ERC1, ERC4 CS 2 General measures applicable to all activities, General measures (skin Irritants) PROC1 CS 3 General measures applicable to all activities, General measures (skin Irritants) PROC2 CS 4 General measures applicable to all activities, General measures (skin Irritants) PROC3 CS 5 General measures applicable to all activities, General measures (skin Irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin Irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin Irritants) PROC8b CS 8 General measures applicable to all activities, General measures (skin Irritants) PROC15 1.2.1. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up t	1.1. Title section			
Substance : dec-1-ene EC-No.; 212-819-2 Environment ERC1, ERC4 Worker ERC1, ERC4 CS 2 General measures applicable to all activities, General measures (skin irritants) PROC1 CS 3 General measures applicable to all activities, General measures (skin irritants) PROC2 CS 4 General measures applicable to all activities, General measures (skin irritants) PROC3 CS 5 General measures applicable to all activities, General measures (skin irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin irritants) PROC8a CS 6 General measures applicable to all activities, General measures (skin irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin irritants) PROC8b CS 8 General measures applicable to all activities, General measures (skin irritants) PROC8b CS 8 General measures applicable to all activities, General measures (skin irritants) PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %.	Exposure Scenario name : Manufacture			
EC-No.: 212-819-2 Environment CS 1 Manufacture ERC1, ERC4 Worker ERC1, ERC4 CS 2 General measures applicable to all activities, General measures (skin PROC1 irritants) PROC2 CS 3 General measures applicable to all activities, General measures (skin PROC2 irritants) CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8 irritants) CS 9 General measures applicable to all activities, General	Structured Short Tit	le : Manufacture; Industrial uses (SI	J3).	
CS 1 Manufacture ERC1, ERC4 Worker ERC1, ERC4 CS 2 General measures applicable to all activities, General measures (skin irritants) PROC1 CS 3 General measures applicable to all activities, General measures (skin irritants) PROC2 CS 4 General measures applicable to all activities, General measures (skin irritants) PROC3 CS 5 General measures applicable to all activities, General measures (skin irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin irritants) PROC8a CS 6 General measures applicable to all activities, General measures (skin irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin irritants) PROC15 CS 8 General measures applicable to all activities, General measures (skin irritants) PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Ecovers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type	Substance			
Worker CS 2 General measures applicable to all activities, General measures (skin PROC1 irritants) PROC2 CS 3 General measures applicable to all activities, General measures (skin PROC2 irritants) PROC3 CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) PROC4 CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) PROC8b CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type : : Continuous release Emission days : 300 Technical and organisational conditions and measures <td< td=""><td>Environment</td><td></td><td></td></td<>	Environment			
CS 2 General measures applicable to all activities, General measures (skin PROC1 irritants) PROC2 CS 3 General measures applicable to all activities, General measures (skin PROC3 irritants) PROC3 CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) PROC4 CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) PROC4 CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) PROC8a CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) PROC15 CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) PROC2b CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) PROC15 1.2. Conditions of use affecting exposure PROC15 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type : Continuous release Emission days :	CS 1 Manufactu	Ire	ERC1, ERC4	
irritants) Irritants CS 3 General measures applicable to all activities, General measures (skin PROC2 irritants) CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) 2.300 Release type : Continuous release 2.300 Technical and organisational conditions and measures	Worker			
irritants) CS 4 General measures applicable to all activities, General measures (skin PROC3 irritants) CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics		easures applicable to all activities, General mea	sures (skin PROC1	
irritants) irritants CS 5 General measures applicable to all activities, General measures (skin PROC4 irritants) CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure (MSafe) Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures Image: Continuous release		easures applicable to all activities, General mea	sures (skin PROC2	
irritants) irritants) CS 6 General measures applicable to all activities, General measures (skin PROC8a irritants) CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure (MSafe) 352.467 kg/day Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures Image: Conditions and measures		easures applicable to all activities, General mea	sures (skin PROC3	
irritants) Irritants CS 7 General measures applicable to all activities, General measures (skin PROC8b irritants) CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure (MSafe) Release type : Emission days : 300 Technical and organisational conditions and measures		easures applicable to all activities, General mea	sures (skin PROC4	
irritants) Irritants CS 8 General measures applicable to all activities, General measures (skin PROC15 irritants) Investment of the substance (skin) PROC15 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Investment of the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Investment of the substance in the product up to 100 %. Release type : Investment of the substance in the product up to 100 %. Technical and organisational conditions and measures		easures applicable to all activities, General mea	sures (skin PROC8a	
irritants) 1.2. Conditions of use affecting exposure 1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures		easures applicable to all activities, General mea	sures (skin PROC8b	
1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) Product (article) characteristics Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage : 352.467 kg/day (MSafe) : Continuous release Emission days : 300 Technical and organisational conditions and measures		easures applicable to all activities, General mea	sures (skin PROC15	
Amount used (or contained in articles), frequency and duration of use/exposure Maximum allowable site tonnage (MSafe) 352.467 kg/day Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures	1.2.1. Control of envi reactive processing	ronmental exposure: Manufacture of the substa aid at industrial site (no inclusion into or onto ar		
Maximum allowable site tonnage (MSafe) 352.467 kg/day Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures	Covers percentage substance in the product up to 100 %.			
(MSafe) Release type : Continuous release Emission days : 300 Technical and organisational conditions and measures	Amount used (or contained in articles), frequency and duration of use/exposure			
Emission days : 300 Technical and organisational conditions and measures		ite tonnage : 352.467 kg/day		
Technical and organisational conditions and measures	Release type	: Continuous release		
	Emission days	: 300		
SDS Number:10000068089 21/88	Technical and organisational conditions and measures			
	SDS Number:1000000	068089 21/88		

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STP type	: Municipal sewage treatment plant
STP sludge treatment	 Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
STP effluent	: 2.000 m3/d

Conditions and measures related to treatment of waste (including article waste)

Waste treatment	:	External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow	:	18.000 m3/d
Local freshwater dilution factor	:	40
Local marine water dilution factor	:	100

1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

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-	SAFETY DATA SHEET	
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	hemical production or refinery in closed continuous process or processes with equivalent containment conditions	
Product (article) characteristics		
Covers percentage substance in the p	roduct up to 100 %.	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in article	es), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours	
Technical and organisational condit	tions and measures	
(tested to EN374) if hand contact with	Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they n immediately. Provide basic employee training to prevent /	
Other conditions affecting workers	exposure	
Temperature	: Assumes use at not more than 20°C above ambient temperature.	
	anufacture or formulation in the chemical industry in closed ntrolled exposure or processes with equivalent containment	
Product (article) characteristics		
Covers percentage substance in the p	roduct up to 100 %.	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in article	es), frequency and duration of use/exposure	
Duration	: Covers daily exposures up to 8 hours	
Technical and organisational condit	tions and measures	
Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.		
Other conditions affecting workers exposure		
Temperature	: Assumes use at not more than 20°C above ambient	
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temperature.

1.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

1.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteri	stics	
Covers percentage substanc	e in the product up to 100 %.	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours	
Technical and organisatior	nal conditions and measures	
Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.		

No other specific measures identified.

Other conditions affecting workers exposure

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Temperature

Assumes use at not more than 20°C above ambient temperature.

1.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
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Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

1.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

:

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

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Revision Date 2025-06-16

Temperature

: Assumes use at not more than 20°C above ambient temperature.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0,795 μg/l (EUSES)	0,662
Sea water	0,302 μg/l (EUSES)	0,252
Freshwater sediment	0,306 mg/kg wet weight (EUSES)	0,658
Sea sediment	0,116 mg/kg wet weight (EUSES)	0,250
Soil	0,0117 mg/kg wet weight (EUSES)	0,301
Air	0,0649 mg/m ³	

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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1.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

-	Y DATA SHEET	
AlphaPlus® 1-Decene		
Version 2.17 Revision	Date 2025-06-16	
ES 2: Use as an intermediate; Industrial uses (SU3).		
2.1. Title section		
Exposure Scenario name : Use as an intermediate		
Structured Short Title : Use as an intermediate; Industrial uses (SU3).		
Substance : dec-1-ene <u>EC-No.:</u> 212-819-2		
Environment		
CS 1 Use as an intermediate	ERC6a	
Worker		
CS 2 General measures applicable to all activities, General measures (skin irritants)	PROC1	
CS 3 General measures applicable to all activities, General measures (skin irritants)	PROC2	
CS 4 General measures applicable to all activities, General measures (skin irritants)	PROC3	
CS 5 General measures applicable to all activities, General measures (skin irritants)	PROC4	
CS 6 General measures applicable to all activities, General measures (skin irritants)	PROC8a	
CS 7 General measures applicable to all activities, General measures (skin irritants)	PROC8b	
CS 8 General measures applicable to all activities, General measures (skin irritants)	PROC15	
2.2. Conditions of use affecting exposure 2.2.1. Control of environmental exposure: Use of intermediate (ERC6a) Product (article) characteristics		
Covers percentage substance in the product up to 100 %. Amount used (or contained in articles), frequency and duration of use/exposure		
Maximum allowable site tonnage : 51.813 kg/day (MSafe)		
Release type : Continuous release		
Emission days : 300		
Technical and organisational conditions and measures		
Risk from environmental exposure is driven by soil.		
SDS Number:10000068089 28/88		

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Air - minimum efficiency of 80 %	
Water - minimum efficiency of 97,4 %	ò

Conditions and measures related to sewage treatment plant		
STP type	: Municipal sewage treatment plant	
STP sludge treatment	 Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. 	
STP effluent	: 2.000 m3/d	

Conditions and measures related to treatment of waste (including article waste)

Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Other conditions affecting environmental exposure	

Receiving surface water flow	:	18.000 m3/d
Local freshwater dilution factor	:	10
Local marine water dilution factor		100

2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

-	SAFETY DATA SHEET			
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Version 2.17	Revision Date 2025-06-16			
	Chemical production or refinery in closed continuous process e or processes with equivalent containment conditions			
Product (article) characteristics				
Covers percentage substance in the p	product up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in artic	les), frequency and duration of use/exposure			
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational condi	itions and measures			
(tested to EN374) if hand contact with	. Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent / skin problems that may develop.			
Other conditions affecting workers	exposure			
Temperature	: Assumes use at not more than 20°C above ambient temperature.			
	Ianufacture or formulation in the chemical industry in closed ontrolled exposure or processes with equivalent containment			
Product (article) characteristics				
Covers percentage substance in the p	product up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in artic	les), frequency and duration of use/exposure			
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational condi	itions and measures			
(tested to EN374) if hand contact with	. Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent / skin problems that may develop.			
Other conditions affecting workers exposure				
Temperature	: Assumes use at not more than 20°C above ambient			
SDS Number:100000068089	30/88			

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SAFETY DATA SHEET

Version 2.17

Revision Date 2025-06-16

temperature.

2.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

2.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articles), frequency and duration of use/exposure				
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational	conditions and measures			
Avoid direct skin contact with p (tested to EN374) if hand conta	n seek immediate medical assistance. roduct. Identify potential areas for indirect skin contact. Wear gloves act with substance likely. Clean up contamination/spills as soon as they mination immediately. Provide basis employee training to provent (

occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

No other specific measures identified.

Other conditions affecting workers exposure

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Temperature

Assumes use at not more than 20°C above ambient temperature.

2.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
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Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

2.2.8. Control of worker exposure: Use as laboratory reagent (PROC15)

:

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Version 2.17

Revision Date 2025-06-16

Temperature

Assumes use at not more than 20°C above ambient temperature.

2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Use of intermediate (ERC6a)

:

Protection Target	Exposure estimate	RCR
Freshwater	0,433 µg/l (EUSES)	0,361
Sea water	0,0426 μg/l (EUSES)	0,036
Freshwater sediment	0,167 mg/kg wet weight (EUSES)	0,359
Sea sediment	0,0164 mg/kg wet weight (EUSES)	0,035
Soil	0,220 mg/kg wet weight (EUSES)	0,579
Air	0,0017 mg/m ³	

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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2.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.3.8. Worker exposure: Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

	SAFE	TY DATA SHEET		
AlphaF	Plus® 1-Decene			
Version 2	.17 Revisior	n Date 2025-06-16		
ES 3: Fo	rmulation; Industrial uses (SU3).			
3.1. Title	section			
Exposure	e Scenario name : Formulation			
Structure	ed Short Title : Formulation; Industrial uses (SU3).			
Substand	ce : dec-1-ene <u>EC-No.:</u> 212-819-2			
Environn	nent			
CS 1	Formulation	ERC2		
Worker				
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1		
CS 3	General measures applicable to all activities, General measures (skin irritants)	PROC2		
CS 4	General measures applicable to all activities, General measures (skin irritants)	PROC3		
CS 5	General measures applicable to all activities, General measures (skin irritants)	PROC4		
CS 6	General measures applicable to all activities, General measures (skin irritants)	PROC8a		
CS 7	General measures applicable to all activities, General measures (skin irritants)	PROC8b		
CS 8	General measures applicable to all activities, General measures (skin irritants)	PROC9		
CS 9	General measures applicable to all activities, General measures (skin irritants)	PROC14		
CS 10	General measures applicable to all activities, General measures (skin irritants)	PROC15		
3.2. Conditions of use affecting exposure 3.2.1. Control of environmental exposure: Formulation into mixture (ERC2)				
Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Amount used (or contained in articles), frequency and duration of use/exposure				
Maximum (MSafe)	allowable site tonnage : 91.503 kg/day			
Release t	ype : Continuous release			
SDS Num	ber:10000068089 35/88			

SAFETY DATA SHEET AlphaPlus® 1-Decene Version 2.17 Revision Date 2025-06-16 Emission days ÷ 300 Technical and organisational conditions and measures Risk from environmental exposure is driven by soil. Air - minimum efficiency of 0 % Water - minimum efficiency of 97,4 % Conditions and measures related to sewage treatment plant STP type : Municipal sewage treatment plant STP sludge treatment : Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. STP effluent : 2.000 m3/d Conditions and measures related to treatment of waste (including article waste) Waste treatment External treatment and disposal of waste should comply with : applicable local and/or national regulations. Other conditions affecting environmental exposure Receiving surface water flow : 18.000 m3/d Local freshwater dilution factor : 10 Local marine water dilution factor 100 : 3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) Product (article) characteristics Covers percentage substance in the product up to 100 %. Liquid, vapour pressure < 0.5 kPa at Standard Temperature Physical form of product : and Pressure Amount used (or contained in articles), frequency and duration of use/exposure Covers daily exposures up to 8 hours Duration : Technical and organisational conditions and measures Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified. Other conditions affecting workers exposure Temperature Assumes use at not more than 20°C above ambient : SDS Number:100000068089 36/88

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temperature.

3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, v

Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

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Other conditions affecting workers exposure			
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
3.2.5. Control of worker expos (PROC4)	sure: Chemical production where opportunity for exposure arises		
Product (article) characteristi	ics		
Covers percentage substance i	n the product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in	n articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Technical and organisational	conditions and measures		
Avoid direct skin contact with pl (tested to EN374) if hand conta occur. Wash off any skin conta	n seek immediate medical assistance. roduct. Identify potential areas for indirect skin contact. Wear gloves act with substance likely. Clean up contamination/spills as soon as they mination immediately. Provide basic employee training to prevent / ort any skin problems that may develop. ntified.		
Other conditions affecting wo	orkers exposure		
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
3.2.6. Control of worker expos dedicated-facilities (PROC8a)	sure: Transfer of substance or mixture (charging/discharging) at non		
Product (article) characteristi	ics		
Covers percentage substance i	n the product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in	n articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Technical and organisational	conditions and measures		
Avoid direct skin contact with pr (tested to EN374) if hand conta occur. Wash off any skin contar	n seek immediate medical assistance. roduct. Identify potential areas for indirect skin contact. Wear gloves act with substance likely. Clean up contamination/spills as soon as they mination immediately. Provide basic employee training to prevent / ort any skin problems that may develop. ntified.		
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Other conditions affecting workers exposure			
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
3.2.7. Control of worker expos dedicated facilities (PROC8b)	ure: Transfer of substance or mixture (charging/discharging) at		
Product (article) characteristic	S		
Covers percentage substance ir	the product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in	articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Technical and organisational	conditions and measures		
Avoid direct skin contact with pr (tested to EN374) if hand contact occur. Wash off any skin contant	seek immediate medical assistance. oduct. Identify potential areas for indirect skin contact. Wear gloves ct with substance likely. Clean up contamination/spills as soon as they nination immediately. Provide basic employee training to prevent / ort any skin problems that may develop. ntified.		
Other conditions affecting wo	rkers exposure		
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
3.2.8. Control of worker expos (dedicated filling line, includin	ure: Transfer of substance or mixture into small containers g weighing) (PROC9)		
Product (article) characteristic	cs		
Covers percentage substance ir	the product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in	articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Technical and organisational	conditions and measures		
Avoid direct skin contact with pr (tested to EN374) if hand contact occur. Wash off any skin contant	seek immediate medical assistance. oduct. Identify potential areas for indirect skin contact. Wear gloves ct with substance likely. Clean up contamination/spills as soon as they nination immediately. Provide basic employee training to prevent / ort any skin problems that may develop. ntified.		
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Other conditions affecting workers exposure			
Temperature	:	Assumes use at not more than 20°C above ambient temperature.	
3.2.9. Control of worker exposure (PROC14)	: Tak	pletting, compression, extrusion, pelettisation, granulation	
Product (article) characteristics			
Covers percentage substance in the	e pro	duct up to 100 %.	
Physical form of product	:	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in an	ticles	s), frequency and duration of use/exposure	
Duration	:	Covers daily exposures up to 8 hours	
Technical and organisational cor	nditic	ons and measures	
(tested to EN374) if hand contact w	uct. Id vith su ation any sk	lentify potential areas for indirect skin contact. Wear gloves ubstance likely. Clean up contamination/spills as soon as they immediately. Provide basic employee training to prevent /	
Other conditions affecting worke	ers ex	cposure	
Temperature	:	Assumes use at not more than 20°C above ambient temperature.	
3.2.10. Control of worker exposur	e: Us	se as laboratory reagent (PROC15)	
Product (article) characteristics			
Covers percentage substance in the	e pro	duct up to 100 %.	
Physical form of product	:	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in articles), frequency and duration of use/exposure			
Duration	:	Covers daily exposures up to 8 hours	
Technical and organisational cor	nditic	ons and measures	
(tested to EN374) if hand contact w	uct. Id vith su ation any sk	lentify potential areas for indirect skin contact. Wear gloves ubstance likely. Clean up contamination/spills as soon as they immediately. Provide basic employee training to prevent /	
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Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Freshwater	0,0005 mg/l (EUSES)	0,414
Sea water	0,049 µg/I (EUSES)	0,041
Freshwater sediment	0,191 mg/kg wet weight (EUSES)	0,412
Sea sediment	0,019 mg/kg wet weight (EUSES)	0,041
Soil	0,290 mg/kg wet weight (EUSES)	0,765
Air	0,195 mg/m³	

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

3.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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3.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.8. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.9. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.3.10. Worker exposure: Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

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	se in coatings – industrial; Industrial uses (SU3).	
4.1. Title	e section	
Exposu	re Scenario name : Use in coatings – industrial	
Structur	red Short Title : Use in coatings – industrial; Industrial uses (S	SU3).
Substan	ice : dec-1-ene <u>EC-No.:</u> 212-819-2	
Environ	ment	
CS 1	Use in coatings – industrial	ERC4
Worker		
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1
CS 3	General measures applicable to all activities, General measures (skin irritants)	PROC2
CS 4	General measures applicable to all activities, General measures (skin irritants)	PROC3
CS 5	General measures applicable to all activities, General measures (skin irritants)	PROC4
CS 6	General measures applicable to all activities, General measures (skin irritants)	PROC5
CS 7	General measures applicable to all activities, General measures (skin irritants)	PROC7
CS 8	General measures applicable to all activities, General measures (skin irritants)	PROC8a
CS 9	General measures applicable to all activities, General measures (skin irritants)	PROC8b
CS 10	General measures applicable to all activities, General measures (skin irritants)	PROC9
CS 11	General measures applicable to all activities, General measures (skin irritants)	PROC10
CS 12	General measures applicable to all activities, General measures (skin irritants)	PROC13
CS 13	General measures applicable to all activities, General measures (skin irritants)	PROC14
CS 14	General measures applicable to all activities, General measures (skin irritants)	PROC15

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

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Product (article) characteristics	
Covers percentage substance in the	product up to 100 %.
Amount used (or contained in arti	cles), frequency and duration of use/exposure
Maximum allowable site tonnage (MSafe)	: 19.491 kg/day
Release type	: Continuous release
Emission days	: 300
Technical and organisational cond	ditions and measures
Risk from environmental exposure is Air - minimum efficiency of 90 % Water - minimum efficiency of 97,4 %	
Conditions and measures related	to sewage treatment plant
STP type	: Municipal sewage treatment plant
STP sludge treatment	 Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
STP effluent	: 2.000 m3/d
Conditions and measures related	to treatment of waste (including article waste)
Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Other conditions affecting enviror	imental exposure
Receiving surface water flow	: 18.000 m3/d
Local freshwater dilution factor	: 10
Local marine water dilution factor	: 100
	Chemical production or refinery in closed process without es with equivalent containment conditions (PROC1)
Covers percentage substance in the	product up to 100 %.
Physical form of product	 Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure
Amount used (or contained in arti	cles), frequency and duration of use/exposure
Duration	: Covers daily exposures up to 8 hours
Technical and organisational con	ditions and measures
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Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

4.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient temperature.

4.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristi	cs	
Covers percentage substance in	n the product up to 100 %.	
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure	
Amount used (or contained in articles), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours	
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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

 Product (article) characteristics

 Covers percentage substance in the product up to 100 %.

 Physical form of product
 : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure</td>

 Amount used (or contained in articles), frequency and duration of use/exposure

 Duration
 : Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.7. Control of worker exposure: Industrial spraying (PROC7)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.9. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.10. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.11. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.12. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics			
Covers percentage substance in the pro-	oduct up to 100 %.		
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in articles), frequency and duration of use/exposure			
Duration :	Covers daily exposures up to 8 hours		
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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.13. Control of worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.2.14. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics			
Covers percentage substance in the product up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in articles), frequency and duration of use/exposure			
Duration	: Covers daily exposures up to 8 hours		
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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Freshwater	0,334 µg/l (EUSES)	0,278
Sea water	0,0326 μg/l (EUSES)	0,027
Freshwater sediment	0,129 mg/kg wet weight (EUSES)	0,276
Sea sediment	0,0126 mg/kg wet weight (EUSES)	0,027
Soil	0,216 mg/kg wet weight (EUSES)	0,570
Air	0,303 mg/m ³	

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

4.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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4.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.7. Worker exposure: Industrial spraying (PROC7)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.10. Worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.11. Worker exposure: Roller application or brushing (PROC10)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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4.3.12. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.13. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.3.14. Worker exposure: Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

Alnhal	SAF Plus® 1-Decene	ETY DATA SHEET
Version 2		on Date 2025-06-16
ES 5 [.] Us	se in coatings – professional; Professional uses (SU22).	
	e section	
Expects	e Seenerie name	
•	e Scenario name : Use in coatings – professional ed Short Title : Use in coatings – professional; Professiona	
Substan		
Environ	nent	
CS 1	Use in coatings – professional	ERC8a, ERC8d
Worker		
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1
CS 3	General measures applicable to all activities, General measures (skin irritants)	PROC2
CS 4	General measures applicable to all activities, General measures (skin irritants)	PROC3
CS 5	General measures applicable to all activities, General measures (skin irritants)	PROC4
CS 6	General measures applicable to all activities, General measures (skin irritants)	PROC5
CS 7	General measures applicable to all activities, General measures (skin irritants)	PROC8a
CS 8	General measures applicable to all activities, General measures (skin irritants)	PROC8b
CS 9	General measures applicable to all activities, General measures (skin irritants)	PROC10
CS 10	General measures applicable to all activities, General measures (skin irritants)	PROC11
CS 11	General measures applicable to all activities, General measures (skin irritants)	PROC13
CS 12	General measures applicable to all activities, General measures (skin irritants)	PROC15
CS 13	General measures applicable to all activities, General measures (skin irritants)	PROC19

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Version 2.17

Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Amount used (or contained in artic	les), frequency and duration of use/exposure			
Maximum allowable site tonnage (MSafe)	: 52 kg/day			
Release type	: Wide dispersive use			
Emission days	: 300			
Technical and organisational cond	itions and measures			
Risk from environmental exposure is Air - minimum efficiency of 0 % Water - minimum efficiency of 97,4 %				
Conditions and measures related to	o sewage treatment plant			
STP type	: Municipal sewage treatment plant			
STP sludge treatment	 Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed. 			
STP effluent	: 2.000 m3/d			
Conditions and measures related to	o treatment of waste (including article waste)			
Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.			
Other conditions affecting environ	mental exposure			
Receiving surface water flow	: 18.000 m3/d			
Local freshwater dilution factor	: 10			
Local marine water dilution factor	: 100			
	Chemical production or refinery in closed process without s with equivalent containment conditions (PROC1)			
Product (article) characteristics				
Covers percentage substance in the p	product up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in artic	les), frequency and duration of use/exposure			
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational conditions and measures				
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Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

5.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient temperature.

5.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure				
Amount used (or contained in articles), frequency and duration of use/exposure				
Duration	: Covers daily exposures up to 8 hours			
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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

 Product (article) characteristics

 Covers percentage substance in the product up to 100 %.

 Physical form of product
 : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure</td>

 Amount used (or contained in articles), frequency and duration of use/exposure

 Duration
 : Covers daily exposures up to 8 hours

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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.8. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

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Revision Date 2025-06-16

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.9. Control of worker exposure: Roller application or brushing (PROC10)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.10. Control of worker exposure: Non-industrial spraying (PROC11)

Product (article) characteristics				
Covers percentage substance in the prod	uct up to 100 %.			
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articles), frequency and duration of use/exposure				
Duration :	Covers daily exposures up to 8 hours			
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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.11. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.12. Control of worker exposure: Use as laboratory reagent (PROC15)

Product (article) characteristics					
Covers percentage substance in the p	product up to 100 %.				
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure				
Amount used (or contained in articles), frequency and duration of use/exposure					
Duration	: Covers daily exposures up to 8 hours				
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SAFETY DATA SHEET

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.2.13. Control of worker exposure: Manual activities involving hand contact (PROC19)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Protection Target	Exposure estimate	RCR	
Freshwater	0,334 μg/l (EUSES)	0,278	
Sea water	0,0326 μg/I (EUSES)	0,027	
Freshwater sediment	0,129 mg/kg wet weight (EUSES)	0,276	
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Sea sediment	0,0126 mg/kg wet weight (EUSES)	0,027			
Soil	0,163 mg/kg wet weight (EUSES)	0,431			
Air	0,0061 mg/m³				

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

5.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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5.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.9. Worker exposure: Roller application or brushing (PROC10)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.10. Worker exposure: Non-industrial spraying (PROC11)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.11. Worker exposure: Treatment of articles by dipping and pouring (PROC13)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.12. Worker exposure: Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.3.13. Worker exposure: Manual activities involving hand contact (PROC19)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

		TY DATA SHEET
Alphal	Plus® 1-Decene	
Version 2	2.17 Revision	n Date 2025-06-16
ES 6: Us	se in Coatings - Consumer; Consumer uses (SU21).	
6.1. Title	esection	
Exposur	e Scenario name : Use in Coatings - Consumer	
Structur	ed Short Title : Use in Coatings - Consumer; Consumer uses	s (SU21).
Substan	ce : dec-1-ene <u>EC-No.:</u> 212-819-2	
Environ	nent	
CS 1	Use in Coatings - Consumer	ERC8a, ERC8d
Consum	er	
CS 2	General measures applicable to all activities, General measures (skin irritants)	PC1
CS 3	General measures applicable to all activities, General measures (skin irritants)	PC4
CS 4	General measures applicable to all activities, General measures (skin irritants)	PC8
CS 5	General measures applicable to all activities, General measures (skin irritants)	PC9a
CS 6	General measures applicable to all activities, General measures (skin irritants)	PC9b
CS 7	General measures applicable to all activities, General measures (skin irritants)	PC9c
CS 8	General measures applicable to all activities, General measures (skin irritants)	PC15
CS 9	General measures applicable to all activities, General measures (skin irritants)	PC18
CS 10	General measures applicable to all activities, General measures (skin irritants)	PC23
CS 11	General measures applicable to all activities, General measures (skin irritants)	PC24
CS 12	General measures applicable to all activities, General measures (skin irritants)	PC31
CS 13	General measures applicable to all activities, General measures (skin irritants)	PC34

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

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Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage : 52 kg/day (MSafe)

Release type:Wide dispersive useEmission days:365

Conditions and measures related to treatment of waste (including article waste)

 Waste treatment
 : External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow	:	18.000 m3/d
Local freshwater dilution factor	:	10
Local marine water dilution factor	:	100

6.2.2. Control of consumer exposure: Adhesives, sealants (PC1)

Product (article) characteristics Covers percentage substance in the product up to 100 %. Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure Amount used (or contained in articles), frequency and duration of use/exposure Duration : Covers daily exposures up to 8 hours Conditions and measures related to personal protection, hygiene and health evaluation Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified. Other conditions affecting consumers exposure Temperature : Assumes use at not more than 20°C above ambient

temperature.
6.2.3. Control of consumer exposure: Anti-Freeze and de-icing products (PC4)
Product (article) characteristics
SDS Number:10000068089 65/88

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Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

:

Duration

Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.4. Control of consumer exposure: Biocidal products (PC8)

Product (article) character	istics				
Covers percentage substance in the product up to 100 %.					
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure				
Amount used (or containe	d in articles), frequency and duration of use/exposure				
Duration	: Covers daily exposures up to 8 hours				
Conditions and measures	related to personal protection, hygiene and health evaluation				
Avoid direct skin contact wit (tested to EN374) if hand co occur. Wash off any skin co	then seek immediate medical assistance. h product. Identify potential areas for indirect skin contact. Wear gloves ontact with substance likely. Clean up contamination/spills as soon as they ntamination immediately. Provide basic employee training to prevent / report any skin problems that may develop. identified.				
Other conditions affecting	consumers exposure				
Temperature	: Assumes use at not more than 20°C above ambient temperature.				
	experience Continue and points, this para point removers (BCOs)				

6.2.5. Control of consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

	•	U	• •	<i>,</i> •	,	,	
Product (article) characteris	tics						
Covers percentage substance	in the product	up to 10	00 %.				
SDS Number:100000068089				66/88			

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Version 2.17	Revision Date 2025-06-16		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in artic	les), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Conditions and measures related to	o personal protection, hygiene and health evaluation		
(tested to EN374) if hand contact with	. Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent / skin problems that may develop.		
Other conditions affecting consum	ers exposure		
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
6.2.6. Control of consumer exposur	e: Fillers, putties, plasters, modelling clay (PC9b)		
Product (article) characteristics			
Covers percentage substance in the p	product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in artic	les), frequency and duration of use/exposure		
Duration	: Covers daily exposures up to 8 hours		
Conditions and measures related to	o personal protection, hygiene and health evaluation		
(tested to EN374) if hand contact with	. Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent / skin problems that may develop.		
Other conditions affecting consumers exposure			
Temperature	: Assumes use at not more than 20°C above ambient temperature.		
6.2.7. Control of consumer exposure: Finger paints (PC9c)			
Product (article) characteristics			
Covers percentage substance in the p	product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature		
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and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

6.2.8. Control of consumer exposure: Non-metal surface treatment products (PC15)

:

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.9. Control of consumer exposure: Ink and toners (PC18)

Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
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Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.10. Control of consumer exposure: Leather treatment products (PC23)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

 Physical form of product
 : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure</td>

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.11. Control of consumer exposure: Lubricants, greases, release products (PC24)

Product (article) characteristics			
Covers percentage substance	n the product up to 100 %.		
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
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Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.12. Control of consumer exposure: Polishes and wax blends (PC31)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

 Physical form of product
 : Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure</td>

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

6.2.13. Control of consumer exposure: Textile dyes and impregnating products (PC34)

Product (article) characteristics				
Covers percentage substance in the product up to 100 %.				
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
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Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Conditions and measures related to personal protection, hygiene and health evaluation

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting consumers exposure

Temperature	:	Assumes use at not more than 20°C above ambient
		temperature.

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a) / Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Protection Target	Exposure estimate	RCR
Freshwater	0,283 µg/I (EUSES)	0,236
Sea water	0,0276 µg/I (EUSES)	0,023
Freshwater sediment	0,109 mg/kg wet weight (EUSES)	0,235
Sea sediment	0,0106 mg/kg wet weight (EUSES)	0,023
Soil	0,135 mg/kg wet weight (EUSES)	0,355
Air	0,005 mg/m³	

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

6.3.2. Consumer exposure: Adhesives, sealants (PC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.3. Consumer exposure: Anti-Freeze and de-icing products (PC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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6.3.4. Consumer exposure: Biocidal products (PC8)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.5. Consumer exposure: Coatings and paints, thinners, paint removers (PC9a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.6. Consumer exposure: Fillers, putties, plasters, modelling clay (PC9b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.7. Consumer exposure: Finger paints (PC9c)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.8. Consumer exposure: Non-metal surface treatment products (PC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.9. Consumer exposure: Ink and toners (PC18)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.10. Consumer exposure: Leather treatment products (PC23)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.11. Consumer exposure: Lubricants, greases, release products (PC24)

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Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.12. Consumer exposure: Polishes and wax blends (PC31)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.3.13. Consumer exposure: Textile dyes and impregnating products (PC34)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

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ES 7: Use in Oil and Gas field drilling and production operations - Industrial; Industrial uses (SU3).

7.1. Title section

Exposure Scenario name	:	Use in Oil and Gas field drilling and production operations - Industrial
Structured Short Title	:	Use in Oil and Gas field drilling and production operations - Industrial; Industrial uses (SU3).
Substance	:	dec-1-ene <u>EC-No.:</u> 212-819-2

Environment

CS 1	Use in Oil and Gas field drilling and production operations - Industrial	ERC4
Worker		
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1
CS 3	General measures applicable to all activities, General measures (skin	PROC2

	irritants)	
CS 4	General measures applicable to all activities, General measures (skin irritants)	PROC3
CS 5	General measures applicable to all activities, General measures (skin irritants)	PROC4
CS 6	General measures applicable to all activities, General measures (skin irritants)	PROC8a
CS 7	General measures applicable to all activities, General measures (skin	PROC8b

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Product (article) characteristics

irritants)

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

Release type

: Continuous release

Remarks

: Not applicable

Technical and organisational conditions and measures

Discharge to aquatic environment is restricted (see section 4.2).

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SAFETY DATA SHEET AlphaPlus® 1-Decene Version 2.17 Revision Date 2025-06-16 Conditions and measures related to sewage treatment plant STP type : Municipal sewage treatment plant STP sludge treatment : Prevent environmental discharge consistent with regulatory requirements. Conditions and measures related to treatment of waste (including article waste) Waste treatment External treatment and disposal of waste should comply with : applicable local and/or national regulations. 7.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) Product (article) characteristics Covers percentage substance in the product up to 100 %. Physical form of product Liquid, vapour pressure < 0.5 kPa at Standard Temperature : and Pressure Amount used (or contained in articles), frequency and duration of use/exposure Covers daily exposures up to 8 hours Duration : Technical and organisational conditions and measures Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified. Other conditions affecting workers exposure : Assumes use at not more than 20°C above ambient Temperature temperature. 7.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) Product (article) characteristics Covers percentage substance in the product up to 100 %. Physical form of product Liquid, vapour pressure < 0.5 kPa at Standard Temperature : and Pressure Amount used (or contained in articles), frequency and duration of use/exposure Duration Covers daily exposures up to 8 hours : SDS Number:10000068089 75/88

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Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

7.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

Assumes use at not more than 20°C above ambient temperature.

7.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

:

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Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

7.2.6. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

7.2.7. Control of worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

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Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Additional information on exposure estimation

There are no expected releases to the environment from this use, so no exposure assessment is made.

7.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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7.3.6. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.3.7. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Discharge to aquatic environment is restricted by law and industry prohibits release.

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ES 8: Us	e in polymer production – industrial; Industrial uses (SU3).	
8.1. Title	section	
Exposur	e Scenario name : Use in polymer production – industrial	
Structur	ed Short Title : Use in polymer production – industrial; Industr	ial uses (SU3).
Substan	ce : dec-1-ene <u>EC-No.:</u> 212-819-2	
Environ	nent	
CS 1	Use in polymer production – industrial	ERC4, ERC6c
Worker		
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1
CS 3	General measures applicable to all activities, General measures (skin irritants)	PROC2
CS 4	General measures applicable to all activities, General measures (skin irritants)	PROC3
CS 5	General measures applicable to all activities, General measures (skin irritants)	PROC4
CS 6	General measures applicable to all activities, General measures (skin irritants)	PROC5
CS 7	General measures applicable to all activities, General measures (skin irritants)	PROC6
CS 8	General measures applicable to all activities, General measures (skin irritants)	PROC8a
CS 9	General measures applicable to all activities, General measures (skin irritants)	PROC8b
CS 10	General measures applicable to all activities, General measures (skin irritants)	PROC14
CS 11	General measures applicable to all activities, General measures (skin irritants)	PROC21

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Amount used (or contained in articles), frequency and duration of use/exposure

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Maximum allowable site tonnage (MSafe)	: 51.203 kg/day			
Release type	: Continuous release			
Emission days	: 300			
Technical and organisational cor	nditions and measures			
Risk from environmental exposure Air - minimum efficiency of 80 % Water - minimum efficiency of 97,4				
Conditions and measures related	t to sewage treatment plant			
STP type	: Municipal sewage treatment plant			
STP sludge treatment	: Prevent discharge of undissolved substance to or recover from			
	wastewater. Do not apply industrial sludge to natural soils.			
	Sewage sludge should be incinerated, contained or reclaimed.			
STP effluent	: 2.000 m3/d			
Conditions and measures related	t to treatment of waste (including article waste)			
Waste treatment	: External treatment and disposal of waste should comply with applicable local and/or national regulations.			
Other conditions affecting environmental exposure				
Receiving surface water flow	: 18.000 m3/d			
Local freshwater dilution factor	: 10			
Local marine water dilution factor	: 100			
8.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)				
Product (article) characteristics				
Covers percentage substance in th				
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articles), frequency and duration of use/exposure				
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational conditions and measures				
(tested to EN374) if hand contact w occur. Wash off any skin contamination	act. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.			
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	Other	conditions	affecting	workers	exposure
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Temperature

: Assumes use at not more than 20°C above ambient temperature.

8.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.

Other conditions affecting workers exposure

Temperature

: Assumes use at not more than 20°C above ambient temperature.

8.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration

: Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent /

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minimise exposures and to report any s No other specific measures identified.	kin problems that may develop.		
Other conditions affecting workers e	xposure		
Temperature :	Assumes use at not more than 20°C above ambient temperature.		
8.2.5. Control of worker exposure: Ch (PROC4)	nemical production where opportunity for exposure arises		
Product (article) characteristics			
Covers percentage substance in the pro	oduct up to 100 %.		
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in article	es), frequency and duration of use/exposure		
Duration :	Covers daily exposures up to 8 hours		
Technical and organisational conditi	ons and measures		
Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified.			
Other conditions affecting workers exposure			
Temperature :	Assumes use at not more than 20°C above ambient temperature.		
8.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)			
Product (article) characteristics			
Covers percentage substance in the pro	oduct up to 100 %.		
Physical form of product :	Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure		
Amount used (or contained in articles), frequency and duration of use/exposure			
Duration :	Covers daily exposures up to 8 hours		
Technical and organisational conditi	ons and measures		
(tested to EN374) if hand contact with s	nmediate medical assistance. dentify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they i immediately. Provide basic employee training to prevent /		
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minimise exposures and to repo No other specific measures ider		in problems that may develop.	
Other conditions affecting wo	orkers exp	posure	
Temperature		Assumes use at not more than 20°0 temperature.	C above ambient
8.2.7. Control of worker expos	ure: Cale	endering operations (PROC6)	
Product (article) characteristic	cs		
Covers percentage substance ir	n the prod	duct up to 100 %.	
Physical form of product		Liquid, vapour pressure < 0.5 kPa a and Pressure	at Standard Temperature
Amount used (or contained in	n articles)), frequency and duration of use/e	exposure
Duration	:	Covers daily exposures up to 8 hou	ırs
Technical and organisational	conditior	ns and measures	
(tested to EN374) if hand contact	roduct. Ide ct with sub mination in ort any ski	entify potential areas for indirect skir bstance likely. Clean up contaminat mmediately. Provide basic employed	ion/spills as soon as they
Other conditions affecting workers exposure			
Temperature		Assumes use at not more than 20°0 temperature.	C above ambient
8.2.8. Control of worker expos dedicated-facilities (PROC8a)	ure: Tran	nsfer of substance or mixture (cha	arging/discharging) at non
Product (article) characteristic	cs		
Covers percentage substance ir	n the prod	luct up to 100 %.	
Physical form of product		Liquid, vapour pressure < 0.5 kPa a and Pressure	at Standard Temperature
Amount used (or contained in	۱ articles)), frequency and duration of use/e	exposure
Duration	:	Covers daily exposures up to 8 hou	ırs
Technical and organisational	condition	ns and measures	
(tested to EN374) if hand contact	roduct. Ide ct with sub	nediate medical assistance. entify potential areas for indirect skir bstance likely. Clean up contaminat mmediately. Provide basic employed	ion/spills as soon as they
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minimise exposures and to report any No other specific measures identified.				
Other conditions affecting workers	exposure			
Temperature	: Assumes use at not more than 20°C above ambient temperature.			
8.2.9. Control of worker exposure: T dedicated facilities (PROC8b)	ransfer of substance or mixture (charging/discharging) at			
Product (article) characteristics				
Covers percentage substance in the p	roduct up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articl	es), frequency and duration of use/exposure			
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational condi	tions and measures			
(tested to EN374) if hand contact with	Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent /			
Other conditions affecting workers exposure				
Temperature	: Assumes use at not more than 20°C above ambient temperature.			
8.2.10. Control of worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)				
Product (article) characteristics				
Covers percentage substance in the p	product up to 100 %.			
Physical form of product	: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure			
Amount used (or contained in articles), frequency and duration of use/exposure				
Duration	: Covers daily exposures up to 8 hours			
Technical and organisational condi	tions and measures			
	immediate medical assistance. Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they			
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SAFETY DATA SHEET AlphaPlus® 1-Decene Version 2.17 Revision Date 2025-06-16 occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified. Other conditions affecting workers exposure Assumes use at not more than 20°C above ambient Temperature : temperature. 8.2.11. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21) Product (article) characteristics Covers percentage substance in the product up to 100 %. Physical form of product Liquid, vapour pressure < 0.5 kPa at Standard Temperature 1 and Pressure Amount used (or contained in articles), frequency and duration of use/exposure Duration : Covers daily exposures up to 8 hours Technical and organisational conditions and measures Do not ingest. If swallowed then seek immediate medical assistance. Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. No other specific measures identified. Other conditions affecting workers exposure Temperature Assumes use at not more than 20°C above ambient : temperature. 8.3. Exposure estimation and reference to its source 8.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c) RCR Protection Target **Exposure estimate** Freshwater 0,476 µg/l (EUSES) 0.396 Sea water 0,0468 µg/l (EUSES) 0,039 Freshwater sediment 0,183 mg/kg wet weight (EUSES) 0.394 Sea sediment 0.039 0,018 mg/kg wet weight (EUSES)

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Soil

Air

0,651

0,247 mg/kg wet weight (EUSES)

0,0185 mg/m³

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Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

8.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.3. Worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.4. Worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.5. Worker exposure: Chemical production where opportunity for exposure arises (PROC4)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.6. Worker exposure: Mixing or blending in batch processes (PROC5)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.7. Worker exposure: Calendering operations (PROC6)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.8. Worker exposure: Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

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8.3.9. Worker exposure: Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.10. Worker exposure: Tabletting, compression, extrusion, pelettisation, granulation (PROC14)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.3.11. Worker exposure: Low energy manipulation and handling of substances bound in/on materials and/or articles (PROC21)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).