

Version 1.14 Revision Date 2023-12-11

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product information

Product Name : AlphaPlus® C16-18 Blend

Material : 1129882, 1128491, 1125471, 1106141, 1106172, 1080558,

1084585, 1037036, 1037037, 1037038, 1037039

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Hexadecene	629-73-2 211-105-8	Chevron Phillips Chemical Company LP 01-2119474686-23-0002
1-Octadecene	112-88-9 204-012-9	Chevron Phillips Chemical Company LP 01-2119474213-44-0001

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Manufacture

Supported Use as an intermediate

Formulation

Use in coatings – industrial
Use in coatings – professional
Use in Coatings - Consumer
Lubricants - Industrial
Lubricants - Professional
Lubricants - Consumer

Use in Oil and Gas field drilling and production operations -

Industrial

Use in Oil and Gas field drilling and production operations -

Professional

Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils - Professional

Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer

Use in polymer production – industrial

Use in mining – industrial

1.3

Details of the supplier of the safety data sheet

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Company : Chevron Phillips Chemical Company LP

Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530

Responsible Party: Product Safety Group

Email:sds@cpchem.com

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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 (Giftlinjen): +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: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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

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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

E-mail address : SDS@CPChem.com Website : www.CPChem.com

SECTION 2: Hazards identification

2.1

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

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters

airways.

Precautionary Statements : Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

629-73-2 1-Hexadecene112-88-9 1-Octadecene

2.3

Other hazards

assessment

Results of PBT and vPvB : 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.

Endocrine disrupting : The substance/mixture does not contain components

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properties considered to have

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.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Molecular formula : Mixture

Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
1-Hexadecene	629-73-2 211-105-8	Asp. Tox. 1; H304	50 - 70	
1-Octadecene	112-88-9 204-012-9	Asp. Tox. 1; H304	30 - 50	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1

Description of first-aid measures

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well

with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a

physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed Notes to physician

Symptoms : No data available.

Risks : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No data available.

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SECTION 5: Firefighting measures

Flash point 132°C (270°F)

Autoignition temperature 227°C (441°F)

5.1

Extinguishing media

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

fighting

Specific hazards during fire : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

5.3

Advice for firefighters

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Normal measures for preventive fire protection.

Hazardous decomposition

products

: Carbon oxides.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Personal precautions

Ensure adequate ventilation.

6.2

Environmental precautions

: Prevent product from entering drains. Prevent further leakage Environmental precautions

or spillage 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 Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed

containers for disposal.

6.4

Reference to other sections

Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

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A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 7: Handling and storage

7.1

Precautions for safe handling Handling

Advice on safe handling : Do not breathe vapors/dust. Avoid contact with skin and eyes.

For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose

of rinse water in accordance with local and national

regulations.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

8.1

Control parameters Ingredients with workplace control parameters

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
1-Hexadecene	SE AFS	NGV	350 mg/m3	
	SE AFS	KGV	500 mg/m3	V,
1-Octadecene	SE AFS	NGV	350 mg/m3	
	SE AFS	KGV	500 mg/m3	V,
2-Butyl-1-Dodecene	SE AFS	NGV	350 mg/m3	
	SE AFS	KGV	500 mg/m3	V,

V Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas

NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
1-Hexadecene	FOR-2011-12-06- 1358	GV	40 ppm, 275 mg/m3	
1-Octadecene	FOR-2011-12-06- 1358	GV	40 ppm, 275 mg/m3	
2-Butyl-1-Dodecene	FOR-2011-12-06- 1358	GV	40 ppm, 275 mg/m3	

LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
1-Hexadecene	LT OEL	IPRD	350 mg/m3	
	LT OEL	TPRD	500 mg/m3	
1-Octadecene	LT OEL	IPRD	350 mg/m3	
	LT OEL	TPRD	500 mg/m3	
2-Butyl-1-Dodecene	LT OEL	IPRD	350 mg/m3	
	LT OF	TPRD	500 mg/m3	

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1-Hexadecene	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	5 mg/m3	Aerosool
	EE OEL	Piirnorm	350 mg/m3	Aur
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	Aur
1-Octadecene	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	5 mg/m3	Aerosool
	EE OEL	Piirnorm	350 mg/m3	Aur
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	Aur
2-Butyl-1-Dodecene	EE OEL	Piirnorm	350 mg/m3	11,
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	11,
	EE OEL	Piirnorm	5 mg/m3	
	EE OEL	Piirnorm	5 mg/m3	Aerosool
	EE OEL	Piirnorm	350 mg/m3	Aur
	EE OEL	Lühiajalise kokkupuute piirnorm	500 mg/m3	Aur

¹¹ Süsivesinike piirnormid on arvutatud auru faasile. Üle 12 süsinikuaatomiga alifaatsetel süsivesinikel (tridekaanid ja kõrgemad) on 20 °C juures küllastussisaldus < 350 mg/m3. Aerosoolsete süsivesinike piirnorm on 5 mg/m3.

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, Dusts and Mists. 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 airpurifying 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.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

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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:. Protective suit.

Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Form : solid

liquid

Physical state : liquid

Color : Clear, Colorless

Safety data

Flash point : 132°C (270°F)

Lower explosion limit : 0,4 %(V)

Upper explosion limit : 6,3 %(V)

Oxidizing properties : no

Autoignition temperature : 227°C (441°F)

Thermal decomposition : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Freezing point : 8-12°C (46-54°F)

Boiling point/boiling range : 295°C (563°F)

Vapor pressure : 1,00 MMHG

at 24°C (75°F)

Relative density : 0,78

at 25 °C (77 °F)

Density : 0,78 G/ML

at 25°C (77°F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

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Relative vapor density : 8,2

(Air = 1.0)

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable at normal ambient temperature and pressure.

10.2

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

10.3

Possibility of hazardous reactions

Hazardous reactions : Further information: No decomposition if stored and applied as

directed.

10.4

Conditions to avoid : No data available.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

10.6

Hazardous decomposition

products

: Carbon oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute oral toxicity

1-Hexadecene : LD50: 10 g/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Test substance: yes

1-Octadecene LD50: > 10.000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Test substance: no

Information given is based on data obtained from similar

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substances.

Acute inhalation toxicity

1-Hexadecene : LC50: > 8.5 mg/IExposure time: 1 h

Species: Rat Sex: male

Test atmosphere: dust/mist

1-Octadecene Not classified due to data which are conclusive although

insufficient for classification.

Information given is based on data obtained from similar

substances.

Acute dermal toxicity

1-Hexadecene : LD50: > 2020 mg/kg

Species: Rabbit Sex: male and female

Information given is based on data obtained from similar

substances.

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Skin irritation

: Mild skin irritation

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of

the skin.

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Eye irritation

: No eye irritation

Vapors may cause irritation to the eyes, respiratory system

and the skin.

Sensitization

1-Hexadecene : Did not cause sensitization on laboratory animals.

1-Octadecene Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Hexadecene : Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 100, 500, or 1000 mg/kg/day

Exposure time: 42- 51 days Number of exposures: Daily NOEL: 1000 mg/kg bw/day Method: OECD Guideline 422

Information given is based on data obtained from similar

substances.

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Species: Rat, male

Sex: male

Application Route: oral gavage Dose: 10, 101, 1010, 3365 mg/kg/day

Exposure time: 4 weeks

Number of exposures: 7 days/week

NOEL: 101 mg/kg bw/day Method: OECD Test Guideline 407

Target Organs: Stomach

Information given is based on data obtained from similar

substances.

Species: Rat, female

Sex: female

Application Route: oral gavage Dose: 10, 101, 1010, 3365 mg/kg/day

Exposure time: 4 weeks

Number of exposures: 7 days/week NOEL: 1010 mg/kg bw/day Method: OECD Test Guideline 407

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day

Exposure time: 13 weeks

Number of exposures: 7 days/week NOEL: 1000 mg/kg bw/day

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 300, 1000, 3000 ppm Exposure time: 13 weeks

Number of exposures: 6 hrs/day, 5 days/week

NOEL: 3000 ppm

Information given is based on data obtained from similar

substances.

1-Octadecene Species: rat (female)

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d

NOEL: 1.000 mg/kg

Method: OECD Guideline 422

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

1-Hexadecene : Test Type: Ames test

Metabolic activation: with and without metabolic activation

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Result: negative

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Test Type: Mammalian cell gene mutation assay

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

1-Octadecene Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: rodent hepatocytes Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo

1-Hexadecene : Test Type: Micronucleus test

Species: Mouse

Dose: 1,000, 10,000, 25,000 ppm

Result: negative

Reproductive toxicity

1-Hexadecene : Species: Rat

Sex: female

Application Route: oral gavage
Dose: 100, 500, 1000 mg/kg/day
Number of exposures: Daily
Test period: 41 to 55 days
Method: OECD Guideline 421
NOAEL Parent: 1000 mg/kg bw/day
NOAEL F1: 1000 mg/kg bw/day

Information given is based on data obtained from similar

substances.

Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/day Number of exposures: Daily Test period: 42- 51days Method: OECD Guideline 422 NOAEL Parent: 1000 mg/kg bw/day NOAEL F1: 1000 mg/kg bw/day

Information given is based on data obtained from similar

substances.

1-Octadecene Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 0, 100, 500, 1000 mg/kg/d Method: OECD Guideline 421 NOAEL Parent: 1.000 mg/kg NOAEL F1: 1.000 mg/kg

Information given is based on data obtained from similar

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substances.

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Aspiration toxicity : May be fatal if swallowed and enters airways.

CMR effects

1-Hexadecene : Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Did not show mutagenic effects in animal

experiments.

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

1-Octadecene Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects. Teratogenicity: Not available

Reproductive toxicity: No toxicity to reproduction

11.2

Information on other hazards

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Further information : Solvents may degrease the skin.

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.

SECTION 12: Ecological information

12.1

Toxicity

Toxicity to fish

1-Hexadecene : LL50: > 1000 mg/L

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

The product has low solubility in the test medium. An aqueous

dispersion was tested.

1-Octadecene LL50: > 1.000 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 203

Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates

1-Hexadecene : EL50: < 1000 mg/L

Exposure time: 48 h

Species: Daphnia magna (Water flea)

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static test Method: OECD Test Guideline 202

The product has low solubility in the test medium. An aqueous

dispersion was tested.

1-Octadecene EL50: > 1.000 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Information given is based on data obtained from similar

substances.

Toxicity to algae

1-Hexadecene : EC50: > 1000 mg/L

Exposure time: 72 h

Species: Selenastrum capricornutum (algae) static test Method: OECD Test Guideline 201

The product has low solubility in the test medium. An aqueous

dispersion was tested.

1-Octadecene EC50: > 1.000 mg/l

Exposure time: 72 h

Species: Raphidocellus subcapitata (algae)

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

Toxicity to bacteria

1-Octadecene : NOEC: 3 mg/l

Exposure time: 120 h Respiration inhibition

12.2

Persistence and degradability

Biodegradability

1-Hexadecene : According to the results of tests of biodegradability this

product is considered as being readily biodegradable.

1-Octadecene : This material is expected to be readily biodegradable.

Information given is based on data obtained from similar

substances.

12.3

Bioaccumulative potential

Bioaccumulation

1-Hexadecene : Due to the distribution coefficient n-octanol/water,

accumulation in organisms is possible.

12.4

Mobility in soil

Mobility

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1-Hexadecene : No data available

1-Octadecene : No data available

12.5

Results of PBT and vPvB assessment

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.

12.6

Endocrine disrupting properties

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.

12.7

Other adverse effects

Additional ecological

information

: No data available

12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

1-Hexadecene : This material is not expected to be harmful to aquatic

organisms.

1-Octadecene : This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic hazard

1-Hexadecene : This material is not expected to be harmful to aquatic

organisms.

1-Octadecene : This material is not expected to be harmful to aquatic

organisms.

SECTION 13: Disposal considerations

13.1

Waste treatment methods

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

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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Product : Do not dispose of waste into sewer. 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.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 14: Transport information

14.1 - 14.7

Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

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)

15.2

Major Accident Hazard : ZEU_SEVES3 Update:

Legislation Not applicable

Notification status

Europe REACH : This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL : All components of this product are on the Canadian

DSL

Australia AIIC : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory

Philippines PICCS : On the inventory, or in compliance with the inventory Korea KECI : A substance(s) in this product was not registered.

: A substance(s) in 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

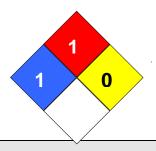
quantity of the non-registered substance(s).

Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1

Fire Hazard: 1
Reactivity Hazard: 0



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Further information

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

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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.

Ke	ey or legend to abbreviations and a	cronyms used in	the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational 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 Concentration
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 Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery 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 New Chemical Substances	TSCA	Toxic Substance Control Act
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.

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Annex

1. Short title of Exposure Scenario: Manufacture

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of

bulk, large scale chemicals (including petroleum products),

Manufacture of fine chemicals

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC15: Use as laboratory reagent

Environmental release category : **ERC1**, **ERC4**: Manufacture of substances, Industrial use of

processing aids in processes and products, not becoming part

of articles

Further information

Manufacture of the substance or use as a process chemical or

extraction agent. Includes recycling/ recovery, material

transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and

associated laboratory activities

2.1 Contributing scenario controlling environmental exposure for:ERC1, ERC4: Manufacture of substances, Industrial use of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities,

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Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use as an intermediate

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU 3, SU8, SU9: Industrial uses: Uses of substances as such

or in preparations at industrial sites, Manufacture of bulk, large scale chemicals (including petroleum products), Manufacture

of fine chemicals

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC15: Use as laboratory reagent

Environmental release category : **ERC6a:** Industrial use resulting in manufacture of another

substance (use of intermediates)

Further information

Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge,

road/rail car and bulk container).

2.1 Contributing scenario controlling environmental exposure for:ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Use as laboratory reagent

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Formulation

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3, SU 10: Industrial Manufacturing (all), Formulation

[mixing] of preparations and/ or re-packaging (excluding

alloys)

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant

contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/

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	discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent				
Environmental release category :	ERC2: Formulation of preparations				
Further information :	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.				
2.1 Contributing scenario controlling preparations	2.1 Contributing scenario controlling environmental exposure for:ERC2: Formulation of preparations				
Technical conditions and measures / Organizational measures Remarks : Not applicable					
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC8a, PROC8b, PROC9, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Production of preparations or articles by tabletting, compression, extrusion, pelletization, Use as laboratory reagent					
Amount used Remarks :	Not applicable				
3. Exposure estimation and referer	nce to its source				
Remarks: Not applicable					
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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use in coatings - industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of propagations and articles (multistage and/ or significant

of preparations and articles (multistage and/ or significant

contact)

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC14: Production of preparations or articles by tabletting,

compression, extrusion, pelletization **PROC15:** Use as laboratory reagent

Environmental release category : ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

Further information

Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.

2.1 Contributing scenario controlling environmental exposure for:ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Production of preparations or articles by tabletting, compression, extrusion, pelletization, Use as laboratory reagent

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use in coatings - professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant

contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

acilities

PROC10: Roller application or brushing **PROC11:** Non industrial spraying

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SAFETY DATA SHEET AlphaPlus® C16-18 Blend Version 1.14 Revision Date 2023-12-11 PROC13: Treatment of articles by dipping and pouring PROC15: Use as laboratory reagent PROC19: Hand-mixing with intimate contact and only PPE available : ERC8a, ERC8d: Wide dispersive indoor use of processing Environmental release category aids in open systems. Wide dispersive outdoor use of processing aids in open systems Further information Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities. 2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d: Wide dispersive indoor use of processing aids in open systems. Wide dispersive outdoor use of processing aids in open systems Technical conditions and measures / Organizational measures : Not applicable Remarks 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19: Use in closed process, no likelihood of exposure. Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Use as laboratory reagent, Hand-mixing with intimate contact and only PPE available Amount used : Not applicable Remarks 3. Exposure estimation and reference to its source Remarks: Not applicable SDS Number:100000012023 26/44

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4. Guidance to Downstream Use by the Exposure Scenario	r to evaluate whether he works inside the boundaries set
-	
Not applicable 1. Short title of Exposure Scenario: Us	se in Coatings - Consumer
·	
Main User Groups	: SU 21: Consumer uses: Private households (= general public = consumers)
Sector of use	: SU 21: Consumer uses: Private households (= general public = consumers)
Product category	: PC1: Adhesives, sealants
	PC4: Anti-Freeze and de-icing productsPC8: Biocidal products (e.g. Disinfectants, pest control)
	PC9a: Coatings and paints, thinners, paint removers
	PC9b: Fillers, putties, plasters, modelling clay
	PC9c: Finger paints PC15: Non-metal-surface treatment products
	PC18: Ink and toners
	PC23: Leather tanning, dye, finishing, impregnation and care products
	PC24: Lubricants, greases, release products
	PC31: Polishes and wax blends
	PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
Environmental release category	: ERC8a, ERC8d: Wide dispersive indoor use of processing
Ç ,	aids in open systems, Wide dispersive outdoor use of processing aids in open systems
Further information	:
	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.
0.4 Contribution concris contro	Him a province magnetal assessment for FDCCa. FDCCal. Wilde
	olling environmental exposure for:ERC8a, ERC8d: Wide sing aids in open systems, Wide dispersive outdoor use
of processing aids in open syste	
Technical conditions and measures	/ Organizational measures
Remarks	: Not applicable
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2.2 Contributing scenario controlling consumer exposure for: PC1, PC4, PC8, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34: Adhesives, sealants, Anti-Freeze and de-icing products, Biocidal products (e.g. Disinfectants, pest control), Coatings and paints, thinners, paint removers, Fillers, putties, plasters, modelling clay, Finger paints, Non-metal-surface treatment products, lnk and toners, Leather tanning, dye, finishing, impregnation and care products, Lubricants, greases, release products, Polishes and wax blends, Textile dyes, finishing and impregnating products; including bleaches and other processing aids

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Lubricants - Industrial

Main User Groups : **SU 3:** Industrial uses: Uses of substances as such or in

preparations at industrial sites

: SU3: Industrial Manufacturing (all) Sector of use

: PROC1: Use in closed process, no likelihood of exposure Process category

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly

open process

PROC18: Greasing at high energy conditions

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Environmental release category :	ERC4, ERC7: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of substances in closed systems
Further information	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.
	ing environmental exposure for:ERC4, ERC7: Industrial es and products, not becoming part of articles, osed systems
Technical conditions and measures / Remarks	Organizational measures : Not applicable
PROC4, PROC7, PROC8a, PROC8in closed process, no likelihood or occasional controlled exposure, Use in batch and other process (sindustrial spraying, Transfer of su vessels/large containers at non-de (charging/ discharging) from/ to ve of substance or preparation into sweighing), Roller application or br	ing worker exposure for: PROC1, PROC2, PROC3, b, PROC9, PROC10, PROC13, PROC17, PROC18: Use f exposure, Use in closed, continuous process with Use in closed batch process (synthesis or formulation), ynthesis) where opportunity for exposure arises, obstance or preparation (charging/discharging) from/to redicated facilities, Transfer of substance or preparation ressels/ large containers at dedicated facilities, Transfer small containers (dedicated filling line, including rushing, Treatment of articles by dipping and pouring, ons and in partly open process, Greasing at high
Amount used Remarks	: Not applicable
3. Exposure estimation and refere	nce to its source
Remarks: Not applicable	
4. Guidance to Downstream User to by the Exposure Scenario	to evaluate whether he works inside the boundaries set
Not applicable 1. Short title of Exposure Scenario: Lub	ricants - Professional

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Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring **PROC17:** Lubrication at high energy conditions and in partly open process

PROC18: Greasing at high energy conditions

PROC20: Heat and pressure transfer fluids in dispersive,

professional use but closed systems

Environmental release category : **ERC8a, ERC9a, ERC9b:** Wide dispersive indoor use

of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive

outdoor use of substances in closed systems

Further information :

Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment

maintenance and disposal of waste oil.

2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3,

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PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process, Greasing at high energy conditions, Heat and pressure transfer fluids in dispersive, professional use but closed systems

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Lubricants - Consumer

Main User Groups : **SU 21:** Consumer uses: Private households (= general public

= consumers)

Sector of use : **SU 21:** Consumer uses: Private households (= general public

= consumers)

Product category : **PC1:** Adhesives, sealants

PC24: Lubricants, greases, release products

PC31: Polishes and wax blends

Environmental release category : ERC8a, ERC9a, ERC9b: Wide dispersive indoor use

of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive

outdoor use of substances in closed systems

Further information :

Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application,

operation of engines and similar articles, equipment

maintenance and disposal of waste oil.

2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use

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of substances in closed s systems	ystems, Wide dispersive outdoor use of substances in closed
Technical conditions and me Remarks	asures / Organizational measures : Not applicable
	controlling consumer exposure for: PC1, PC24, PC31: icants, greases, release products, Polishes and wax blends
,	
Amount used Remarks	: Not applicable
3. Exposure estimation ar	d reference to its source
Remarks: Not applicable	,
4. Guidance to Downstrea by the Exposure Scenario	m User to evaluate whether he works inside the boundaries se
Not applicable 1. Short title of Exposure Scen - Industrial	ario: Use in Oil and Gas field drilling and production operations
Main User Groups Sector of use Process category	 SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU3: Industrial Manufacturing (all) PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

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facilities

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Environmental release category	: ERC4: Industrial use of processing aids in processes and products, not becoming part of articles
Further information	: Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.
	olling environmental exposure for:ERC4: Industrial use of nd products, not becoming part of articles
Technical conditions and measures Remarks	s / Organizational measures : Not applicable
PROC4, PROC8a, PROC8b: Use closed, continuous process with process (synthesis or formulation opportunity for exposure arises (charging/discharging) from/to v	olling worker exposure for: PROC1, PROC2, PROC3, in closed process, no likelihood of exposure, Use in hoccasional controlled exposure, Use in closed batch on), Use in batch and other process (synthesis) where , Transfer of substance or preparation vessels/large containers at non-dedicated facilities, ration (charging/ discharging) from/ to vessels/ large
Amount used Remarks	: Not applicable
3. Exposure estimation and refe	rence to its source
Remarks: Not applicable	
4 Guidance to Downstream Use	er to evaluate whether he works inside the boundaries set

: **SU 22:** Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Main User Groups

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Professional

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Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

Environmental release category : **ERC8d:** Wide dispersive outdoor use of processing aids in

open systems

Further information

Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room

activities and related maintenance.

2.1 Contributing scenario controlling environmental exposure for:ERC8d: Wide dispersive outdoor use of processing aids in open systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

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Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Metal working fluids / rolling oils - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : Su3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant

contact)

PROC7: Industrial spraying

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC13: Treatment of articles by dipping and pouring

PROC18: Greasing at high energy conditions

Environmental release category : **ERC4:** Industrial use of processing aids in processes and

products, not becoming part of articles

Further information :

Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and

disposal of waste oils.

2.1 Contributing scenario controlling environmental exposure for:ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

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Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Industrial spraying, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation into small containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Metal working fluids / rolling oils - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC10: Roller application or brushing

PROC11: Non industrial spraying

PROC13: Treatment of articles by dipping and pouring

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	PROC17: Lubrication at high energy conditions and in partly open process			
Environmental release category	: ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems			
Further information	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.			
2.1 Contributing scenario controlling environmental exposure for:ERC8a, ERC8d, ERC9a, ERC9b: Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems				
Technical conditions and measures <i>I</i> Remarks	/ Organizational measures : Not applicable			
2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Roller application or brushing, Non industrial spraying, Treatment of articles by dipping and pouring, Lubrication at high energy conditions and in partly open process				
Amount used Remarks	: Not applicable			
3. Exposure estimation and reference to its source				
Remarks: Not applicable				
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4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Functional Fluids - Industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental release category : ERC7: Industrial use of substances in closed systems

Further information

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment

including maintenance and related material transfers.

2.1 Contributing scenario controlling environmental exposure for:ERC7: Industrial use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b,: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Functional Fluids - Professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) **PROC20:** Heat and pressure transfer fluids in dispersive,

professional use but closed systems

Environmental release category : **ERC9a**, **ERC9b**: Wide dispersive indoor use of substances in

closed systems. Wide dispersive outdoor use of substances in

closed systems

Further information :

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material

transfers.

2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Technical conditions and measures / Organizational measures

Remarks : Not applicable

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2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a,, PROC20: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing), Heat and pressure transfer fluids in dispersive, professional use but closed systems				
Amount used	. Not applicable			
Remarks	: Not applicable			
3. Exposure estimation and refe	erence to its source			
	2.0.100 10 110 0041.00			
Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario				
				Not applicable
Not applicable 1. Short title of Exposure Scenario: F	unctional Fluids - Consumer			
Main User Groups	: SU 21: Consumer uses: Private households (= general public			
Sector of use	= consumers): SU 21: Consumer uses: Private households (= general public			
Product category	= consumers): PC16: Heat transfer fluidsPC17: Hydraulic fluids			
Environmental release category	: ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems			
Further information	: Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.			
2.1 Contributing scenario controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of				

substances in closed systems

Technical conditions and measures / Organizational measures

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Remarks : Not applicable

2.2 Contributing scenario controlling consumer exposure for: PC16, PC17: Heat transfer fluids, Hydraulic fluids

Amount used

Remarks : Not applicable

3. Exposure estimation and reference to its source

Remarks: Not applicable

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use in polymer production - industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3, SU 10: Industrial Manufacturing (all), Formulation

[mixing] of preparations and/ or re-packaging (excluding

allovs)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant

contact)

PROC6: Calendering operations

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC14: Production of preparations or articles by tabletting,

compression, extrusion, pelletization **PROC15:** Use as laboratory reagent

Environmental release category : **ERC4, ERC6c:** Industrial use of processing aids in processes

and products, not becoming part of articles, Industrial use of

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SAFETY DATA SHEET AlphaPlus® C16-18 Blend Version 1.14 Revision Date 2023-12-11 monomers for manufacture of thermoplastics Further information Manufacture of polymers from monomers in continuous and batch processes, include sparging, discharging, and reactor maintenance and immediate polymer product formation (i.e. compounding, pelletisation, product off-gassing). 2.1 Contributing scenario controlling environmental exposure for:ERC4, ERC6c: Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use of monomers for manufacture of thermoplastics Technical conditions and measures / Organizational measures Remarks : Not applicable 2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC6, PROC8a, PROC8b, PROC14, PROC15: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Calendering operations, Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities, Production of preparations or articles by tabletting, compression, extrusion, pelletization, Use as laboratory reagent Amount used Remarks : Not applicable 3. Exposure estimation and reference to its source Remarks: Not applicable 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Not applicable

1. Short title of Exposure Scenario: Use in mining - industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

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Sector of use : SU3: Industrial Manufacturing (all)

Process category : PROC1: Use in closed process, no likelihood of exposure

PROC2: Use in closed, continuous process with occasional

controlled exposure

PROC3: Use in closed batch process (synthesis or

formulation)

PROC4: Use in batch and other process (synthesis) where

opportunity for exposure arises

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant

contact)

PROC8a: Transfer of substance or preparation

(charging/discharging) from/to vessels/large containers at

non-dedicated facilities

PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated

facilities

PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Environmental release category : ERC4: Industrial use of processing aids in processes and

products, not becoming part of articles

Further information

Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities, and substance recovery and disposal.

2.1 Contributing scenario controlling environmental exposure for:ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

Technical conditions and measures / Organizational measures

Remarks : Not applicable

2.2 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4,, PROC8a, PROC8b, PROC9: Use in closed process, no likelihood of exposure, Use in closed, continuous process with occasional controlled exposure, Use in closed batch process (synthesis or formulation), Use in batch and other process (synthesis) where opportunity for exposure arises, PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact), Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities, Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities, Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Amount used

Remarks : Not applicable

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3. Exposure estimation and reference to its	source
Remarks: Not applicable	
4. Guidance to Downstream User to evalua by the Exposure Scenario	te whether he works inside the boundaries set
Not applicable	
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