AlphaPlus[®] 1-DODECENE

AlphaPlus Normal Alpha Olefins

Version 2.0

Revision Date 2024-04-29

MSDS number: N/A

CTION 1: Identification of the substance/mixture and of the company/undertaking		
Product Name Material	AlphaPlus® 1-DODECENE 1128424, 1087853, 1037008, 1015429,	1021778
Recommended use of the product	Intermediate	
Restrictions on use	None known.	
Address	Chevron Phillips Chemical Company LF Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380)
Address	CHEVRON PHILLIPS CHEMICALS AS C/O DONG WOO CORPORATION #B-2601,JEONGJAIL-RO, BUNDANG-GU,SEONGNAMI-SI, GYEONGGI-DO,13557 SOUTH KOREA Telephone no.: +612-9186-1132	IA PTE. LTD.
Emergency telephone:		
Mexico CHEMTREC 01-8 South America SOS-Cote Argentina: +(54)-1159839 EUROPE: BIG +32.14.58 Austria: VIZ +43 1 406 43 Belgium: 070 245 245 (24 Bulgaria: +359 2 9154 23	al) or 703.527.3887(int'l) 9186 1132) China: 0532 8388 9090 0-681-9531 (24 hours) Inside Brazil: 0800.111.767 Outside Brazil 31 45 (phone) or +32.14583516 (telefax) 3 (24 hours/day, 7 days/week)	: +55.19.3467.1600
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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: 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 E-mail address SDS@CPChem.com Website www.CPChem.com Appointees 회사명: 리이치24시코리아㈜. 주소: 서울특별시 강남구 강남대로 94길 34,4층 전화: +82-02-6245-1610 **SECTION 2: Hazards identification Hazard classification** Number:10000068203 2/18

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Standards for classificatio (ministry of employment a	-		nd material safet	y data sheet
Classification				
	: Aspiration ha	azard, Category 1		
Warning label elements in	cluding precautionar	y statements		
Symbol(s)				
Signal Word	: Danger			
Hazard Statements	: H304: May b	e fatal if swallowed	and enters airwa	ys.
Precautionary Statements Other hazards which do not result in classification	Storage: P405: Stor Disposal:	octor. NOT induce vomiting e locked up. oose of contents/ cor		
SECTION 3: Composition/info	ormation on ingredie	ents		
Synonyms	: NAO 12 Dodecene-1 ((C12H24	C12)		
Molecular formula	: C12H24			
Common name	Synonyms	CAS-No.	Concentration	KECI Number
		- /		
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1-Dodecene	dode	c-1-ene	112-41-4	90 % - 100%	KE-12898
	dode	c-1-ene	112-41-4	92 % - 96%	KE-12898
	uoue	-1-6116		02 /0 00/0	
TION 4: First aid measure	S				
General advice	:	sheet to the do	octor in attendar	Show this material s nce. Material may p nonia if swallowed c	roduce a
In case of eye contact	:	lenses. Protec	t unharmed eye	ecaution. Remove c e. Keep eye wide o s, consult a speciali	pen while
In case of skin contact	:	If on skin, rinse	e well with water	r. If on clothes, rem	ove clothes.
If inhaled	:		, place in recove ptoms persist, c	ery position and see all a physician.	k medical
If swallowed	:	an unconsciou		lever give anything nptoms persist, call spital.	
TION 5: Firefighting meas	ures				
Flash point	:	77°C (171°F)			
Autoignition temperature	:	225°C (437°F)		
Suitable extinguishing media	:	Carbon dioxide	e (CO2).		
Unsuitable extinguishing media	:	High volume w	vater jet.		
Specific hazards during fire fighting	:			nat are appropriate nding environment.	to local
		Do not allow ru courses.	un-off from fire fi	ghting to enter drain	ns or water
Special protective equipment for fire-fighters	:	Wear self-cont necessary.	ained breathing	apparatus for firefig	ghting if
	:			guishing water sepa	
Further information					anu

		SAFETY DATA SHEE
AlphaPlus [®] 1-DODECENE		
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		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. Keep away from open flames, hot surfaces and sources of ignition.
ECTION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
ECTION 7: Handling and stora	age	
Handling		
Advice on safe handling	:	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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose
		of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	of rinse water in accordance with local and national
	:	of rinse water in accordance with local and national regulations. Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of
against fire and explosion	:	of rinse water in accordance with local and national regulations. Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the
against fire and explosion Secure storage Requirements for storage	:	of rinse water in accordance with local and national regulations. Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical
against fire and explosion Secure storage Requirements for storage areas and containers	::	of rinse water in accordance with local and national regulations. Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition. No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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SAFETY DATA SHEET

SECTION 8: Exposure controls/personal protection

Chemical exposure standards, biological exposure standards, etc.

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.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
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.
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-resistant clothing. Footwear protecting against chemicals.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
SECTION 9: Physical and chemi	ica	l properties
Information on basic physi	cal	and chemical properties
Appearance		
Physical state Color		: liquid : Clear, colorless
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	Odor Odor Threshold	:	No data available No data available
	рН	:	Not applicable
	Freezing point	:	-35°C (-31°F)
	Boiling point/boiling range	:	213°C (415°F)
	Flash point	:	77°C (171°F)
	Evaporation rate	:	No data available
	Flammability (solid, gas)	:	No data available
	Lower explosion limit	:	0.6 %(V)
	Upper explosion limit	:	5.4 %(V)
	Vapor pressure	:	0.35 kPa at 65°C (149°F)
	Solubility	:	Soluble in hydrocarbon solvents; insoluble in water.
	Relative density	:	0.76 at 15.6 °C (60.1 °F)
	Density	:	0.76 g/m3 at 20°C (68°F)
			762 kg/m3 at 15°C (59°F)
			736 kg/m3 at 50°C (122°F)
	Vapor density	:	5.81 (Air = 1.0)
	Partition coefficient: n- octanol/water	:	No data available
	Autoignition temperature	:	225°C (437°F)
	Decomposition temperature	:	No data available
	Viscosity, kinematic	:	0.68 cSt at 100°C (212°F)
	Molecular weight	:	168.36 g/mol
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TION 10: Stability and reac	tivity
Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	: No data available
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	rmation
Information on exposure re	outes
Acute oral toxicity	
1-Dodecene	: LD50: > 10,000 mg/kg Species: Rat Sex: male Method: Fixed Dose Method Information given is based on data obtained from similar substances.
	LD50: > 10,000 mg/kg Species: Rat Sex: male Method: Fixed Dose Method Information given is based on data obtained from similar substances.
Acute inhalation toxicity	

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1-Dodecene	: Not classified due to data which are conclusive although insufficient for classification.
	Not classified due to data which are conclusive although insufficient for classification.
Skin corrosion or irritation	
1-Dodecene	: No skin irritation
	No skin irritation
Secure storage 1-Dodecene	 No eye irritation Information given is based on data obtained from similar substances. No eye irritation Information given is based on data obtained from similar substances.
Sensitization	
1-Dodecene	: Did not cause sensitization on laboratory animals.
	Did not cause sensitization on laboratory animals.
AlphaPlus® 1-DODECENE Skin sensitization	
Repeated dose toxicity	
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1-Dodecene	 Species: Rat, Male and female Sex: Male and female Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Exposure time: 13 wk Number of exposures: daily 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 wk Number of exposures: 6 hrs/d, 5 d/wk NOEL: 3000 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.
Germ cell mutagenicity (i	n vitro)
1-Dodecene	: 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 Method: OECD Guideline 473 Result: negative
Specific Target Organ Toxicity (Single Exposur	e)
	Not classified due to data which are conclusive although insufficient for classification.
Specific Target Organ Toxicity (Repeated Exposure)	
Toxicity (Repeated	Not classified due to data which are conclusive although insufficient for classification.
Toxicity (Repeated	

rsion 2.0	Revision Date 2024-04-
1-Dodecene	: May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways.
CMR effects	
1-Dodecene	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Not available Reproductive toxicity: Animal testing did not show any effects on fertility.
	Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Not available Reproductive toxicity: Animal testing did not show any effects on fertility.
Reproductive toxicity	
1-Dodecene	: Species: Rat Sex: male Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg Exposure time: 44 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg

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	Species: Rat Sex: female Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg Exposure time: 41-55 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg	
	Species: Rat Sex: male Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg Exposure time: 44 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg	
	Species: Rat Sex: female Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg Exposure time: 41-55 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg	
AlphaPlus® 1-DODECEN Further information	E : Solvents may degrease the skin.	
ECTION 12: Ecological infor	mation	
ECTION 12: Ecological infor	mation	
	mation	
Ecological Toxicity	mation : No toxicity at the limit of solubility.	
Ecological Toxicity Toxicity to fish		
Ecological Toxicity Toxicity to fish 1-Dodecene	: No toxicity at the limit of solubility.	
Ecological Toxicity Toxicity to fish 1-Dodecene	: No toxicity at the limit of solubility. No toxicity at the limit of solubility.	
Ecological Toxicity Toxicity to fish 1-Dodecene Toxicity to daphnia and o	: No toxicity at the limit of solubility. No toxicity at the limit of solubility. Other aquatic invertebrates	
Ecological Toxicity Toxicity to fish 1-Dodecene Toxicity to daphnia and o	 No toxicity at the limit of solubility. No toxicity at the limit of solubility. other aquatic invertebrates No toxicity at the limit of solubility. 	
Toxicity to fish 1-Dodecene Toxicity to daphnia and o 1-Dodecene	 No toxicity at the limit of solubility. No toxicity at the limit of solubility. other aquatic invertebrates No toxicity at the limit of solubility. 	

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	No toxicity at the limit of solubility.
	NO LONGILY ALLING INTIL OF SOLUDIILLY.
Persistence and degrada	bility
1-Dodecene	 74.1 - 80 % Testing period: 28 d Method: OECD Test Guideline 301 This material is expected to be readily biodegradable.
	: 74.1 - 80 % Testing period: 28 d Method: OECD Test Guideline 301 This material is expected to be readily biodegradable.
Bioaccumulative	
1-Dodecene	: No data available
	: No data available
Mobility	
1-Dodecene	: No data available
	: No data available
Results of PBT assessmer 1-Dodecene	nt : Non-classified PBT substance, Non-classified vPvB substance
	: Non-classified PBT substance, Non-classified vPvB substance
Other adverse effects	: No data available
Ecotoxicology Assessme	ent
Short-term (acute) aquatic 1-Dodecene	 hazard This material is not expected to be harmful to aquatic organisms.
	: This material is not expected to be harmful to aquatic organisms.
TION 13: Disposal consid	lerations
The information in this SDS	S pertains only to the product as shipped.
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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.

Disposal method	: 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.
Disposal precaution	 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.

SECTION 14: 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.

UN Number	:	
UN Product Shipping	:	
Name		
Hazard Class	:	
Packing Group	:	
Marine Pollutant	:	
Special Safety Measures	:	
on Mode of Transport		

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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

Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

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

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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.

TANK VESSELS: ID9003, SUBSTANCES WITH A FLASH-POINT ABOVE 60°C AND NOT MORE THAN 100°C, 9

Other information :	1-Dodecene, S.T. 3, Cat. Y

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

Regulation under the Occupational Safety and Health Act A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

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Regulation		Chemical name	Threshold limits
Harmful Substances Prohibited from Manufacturing	:	Not applicable	
Harmful Substances Required Permission for Manufacture	:	Not applicable	
Act on the Registration and E	val	uation, etc. of Chemical Substances, Chemic	cals Control A
Regulation		Chemical name	Threshold limits
Toxic Chemicals	:	Not applicable	
Prohibited Chemicals	:	Not applicable	
Restricted Chemicals	:	Not applicable	
Toxic Release Inventory	:	Not applicable	
Safety Management Act			
Regulations by the Waste Management Act		: 1- Dodecene: Designated Waste	
	_		
Regulations by other domesti Europe REACH United States of America (USA) TSCA Australia AIIC New Zealand NZIoC Japan ENCS Philippines PICCS Korea KECI		 nd foreign laws This product is in full compliance according regulation 1907/2006/EC. On or in compliance with the active portion TSCA inventory On the inventory, or in compliance with the inventory, or incompliance with the inventory, or incompli	on of the he inventory he inventory he inventory egistered, om registration ulations. ct is still of Record has exported preshold
Europe REACH United States of America (USA) TSCA Australia AIIC New Zealand NZIoC Japan ENCS Philippines PICCS		 This product is in full compliance according regulation 1907/2006/EC. On or in compliance with the active portion TSCA inventory On the inventory, or in compliance with the inventory, or in compliance with	on of the he inventory he inventory he inventory egistered, om registration ulations. ct is still of Record has exported preshold (s).

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SECTION 16: Other information

Source of data		Korea. GHS based classification	
Source of data	•	Rolea. GITS based classification	
Date of initial writing	:	2023-03-06	
Revision number	:	1	
Last revision date	:	2023-10-30	
NFPA Classification	:	Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0	2



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.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of	LD50	Lethal Dose 50%		
	Government Industrial Hygienists				
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect		
	Chemicals		Level		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency		
	List				
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational		
	Substances List		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		

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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

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