SAFETY DATA SHEET



AlphaPlus® 1-Octene

Version 1.14

Revision Date 2023-12-27

according to GB/T 16483 and GB/T 17519

Product information Product Name :: AlphaPlus® 1-Octene Material :: 1128499, 1117428, 1064097, 1021765, 1015426, 1037082 Company :: Chevron Phillips Chemical Company LP Normal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380 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 10.1800-681-9531 (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) Dumark: 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: CHERLA number (INRS): +33 (0) 1 45 24 25 9 59 (24 hours/day, 7 days/week) Gremary: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800	TION 1: Identification of the substance/mixture and of the company/undertaking		
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Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identific	cation
Danger Form: liquid Physical s available. Hazards	 state: liquid Color: Clear, colorless Odor: No information Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic
Form: liquid Physical s available.	: Highly flammable liquid and vapor. Causes mild skin irritation.
Form: liquid Physical s available.	 Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic
Form: liquid Physical s available. Hazards	 Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, Narcotic effects Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2
Form: liquid Physical s available. Hazards Classification	 Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, Narcotic effects Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2
Form: liquid Physical s available. Hazards Classification	 Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, Narcotic effects Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2
Form: liquid Physical s available. Hazards Classification Labeling Symbol(s)	 Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A Specific target organ toxicity - single exposure, Category 3, Narcotic effects Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 2

IphaPlus® 1-Octene	SAFETY DATA SHEE
ersion 1.14	Revision Date 2023-12-2
	H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.
	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P264: Wash skin thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/ eye protection/ face protection. Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331: Do NOT induce vomiting. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391: Collect spillage. Storage: P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P403 + P235: Store in a well-ventilated place. Keep cool. P405: P350 = D235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents/ container to an approved waste
	disposal plant.
ECTION 3: Composition/info	mation on ingredients
Synonyms	: Octene-n-1 Octene-1 (C8) AlphaPlus™ NAO 8 C8H16
Molecular formula	: C8H16

SAFETY DATA SHEET

Version 1.14

Revision Date 2023-12-27

Chemical name	CAS-No. / EINECS-No.	Concentration
		[wt%]
1-Octene	111-66-0	95 - 100
2-Ethyl-1-Hexene	1632-16-2	1 - 5

SECTION 4: 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	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures Flash point : 13°C (55°F) Method: Tag closed cup Autoignition temperature : 221°C (430°F) Suitable extinguishing : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. media Unsuitable extinguishing : High volume water jet. media Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water fighting courses. Special protective : Wear self-contained breathing apparatus for firefighting if equipment for fire-fighters necessary. Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. Fire and explosion Do not spray on a naked flame or any incandescent material. : protection Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only SDS Number:10000068580 4/14

ohaPlus® 1-Octene	
sion 1.14	Revision Date 2023-1
	explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	: Carbon oxides.
TION 6: Accidental release	measures
Personal precautions	: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
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).
TION 7: Handling and stora	ge
Handling	
Advice on safe handling	Electrostatic charge may accumulate and create a hazardous
	condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents". Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Version 1.14

Revision Date 2023-12-27

SAFETY DATA SHEET

Storage

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and wellventilated 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.

SECTION 8: Exposure controls/personal protection

Engineering measures

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

Personal protective equipment

Respiratory protection	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air- supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
SDS Number:100000068580		6/14

Version 1.14

SAFETY DATA SHEET

Revision Date 2023-12-27

TION 9: Physical and chemical properties	
Information on basic physi	ical and chemical properties
Appearance	
Form Physical state Color Odor Odor Threshold	 liquid liquid Clear, colorless No information available. No data available
Safety data	
Flash point	: 13°C (55°F) Method: Tag closed cup
Lower explosion limit	: 0.7 %(V)
Upper explosion limit	: 6.8 %(V)
Oxidizing properties	: no
Autoignition temperature	: 221°C (430°F)
Molecular formula	: C8H16
Molecular weight	: 112.24 g/mol
рН	: No data available
Pour point	: Not applicable
Melting point/freezing point	-102°C (-152°F)
Boiling point/boiling range	: 121°C (250°F)
Vapor pressure	: 1.75 kPa at 20°C (68°F)
	15.30 kPa at 65°C (149°F)
Relative density	: 0.72 at 15.6 °C (60.1 °F)
Density	: 719 kg/m3 at 15°C (59°F)
	710 kg/m3 at 20°C (68°F)
	690 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
S Number:100000068580	7/14

haPlus® 1-Octene	
sion 1.14	Revision Date 2023-1
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 0.38 cSt at 40°C (104°F)
Relative vapor density	: 3.9 (Air = 1.0)
Evaporation rate	: No data available
Percent volatile	: >99 %
Conductivity	: 2.9 pSm Method: ASTM D4308
TION 10: Stability and reactiv	vity
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 read	ctions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	: Heat, sparks, fire, and oxidizing agents.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as
Hazardous decomposition products	chlorates, nitrates, peroxides, etc. : Carbon oxides
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological inform	nation
Acute oral toxicity	
1-Octene	: LD50: > 10,000 mg/kg Species: Rat Sex: male and female
	Method: Fixed Dose Method
Number:100000068580	8/14

Version 1.14

Acute inhalation toxicity	
1-Octene	: LC50: 40.2 mg/l Exposure time: 4 h Species: Rat Sex: male Test atmosphere: vapor Method: OECD Test Guideline 403
Acute dermal toxicity	
1-Octene	 LD50: > 2,000 mg/kg Species: Rabbit Sex: male and female Method: OECD Test Guideline 402
AlphaPlus® 1-Octene Skin irritation	: Mild skin irritation Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation o the skin.
AlphaPlus® 1-Octene Eye irritation	: No eye irritation. Vapors may cause irritation to the eyes, respiratory system and the skin.
AlphaPlus® 1-Octene Sensitization	: Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
1-Octene	 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.
Genotoxicity in vitro	
1-Octene	

AlphaPlus® 1-Octene	
Version 1.14	Revision Date 2023-12-27
	Result: negative
	Test Type: Chromosome aberration test in vitro Result: negative
	Test Type: Cell transformation assay Result: negative
Genotoxicity in vivo	
1-Octene	: Remarks: Not classified due to data which are conclusive although insufficient for classification.
Reproductive toxicity	
1-Octene	: 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-Octene Aspiration toxicity	: May be fatal if swallowed and enters airways.
CMR effects	
1-Octene	: 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.
AlphaPlus® 1-Octene Further information	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
SECTION 12: Ecological inform	ation
SDS Number:100000068580	10/14

IphaPlus® 1-Octene	SAFETY DATA SHEE
ersion 1.14	Revision Date 2023-12-2
Toxicity to fish	
1-Octene	: LC50: 0.87 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
Toxicity to daphnia and othe	er aquatic invertebrates
1-Octene	: EC50: 1 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 Information given is based on data obtained from similar substances.
Toxicity to algae	
1-Octene	 EC50: 1 - 10 mg/l Exposure time: 96 h Species: Pseudokirchneriella subcapitata (microalgae) Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.
M-Factor oct-1-ene	: M-Factor (Acute Aquat. Tox.) 1
Biodegradability	: This material is expected to be readily biodegradable.
Elimination information (persis	stence and degradability)
Bioaccumulation	
1-Octene	: Bioconcentration factor (BCF): 1,259 Method: QSAR modeled data
Mobility	
1-Octene	: No data available
Results of PBT assessment 1-Octene	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information	: Very toxic to aquatic life with long lasting effects.
	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessment	
OS Number:100000068580	11/14

	SAFETY DATA SHEE
phaPlus® 1-Octen	
rsion 1.14	Revision Date 2023-12-2
Short-term (acute) aquatic 1-Octene	c hazard : Very toxic to aquatic life.
2-Ethyl-1-Hexene	: Toxic to aquatic life.
Long-term (chronic) aquat 1-Octene	tic hazard : Very toxic to aquatic life with long lasting effects.
2-Ethyl-1-Hexene	: Toxic to aquatic life with long lasting effects.
CTION 13: Disposal consid	derations
The information in this SD	S pertains only to the product as shipped.
may meet the criteria of a other State and local regu regulated components ma	ed purpose or recycle if possible. This material, if it must be discarded, hazardous waste as defined by US EPA under RCRA (40 CFR 261) or lations. Measurement of certain physical properties and analysis for ay be necessary to make a correct determination. If this material is waste, federal law requires disposal at a licensed hazardous waste
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
CTION 14: Transport infor	mation
	ns shown here are for bulk shipments only, and may not apply to backages (see regulatory definition).
	omestic or international mode-specific and quantity-specific Dangerous
etc.) Therefore, the inform	nation shown here, may not always agree with the bill of lading shipping
etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE	nation shown here, may not always agree with the bill of lading shipping
etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE UN3295, HYDROCAR IMO / IMDG (INTERNATIO	nation shown here, may not always agree with the bill of lading shipping al. Flashpoints for the material may vary slightly between the SDS and th ES DEPARTMENT OF TRANSPORTATION)
etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE UN3295, HYDROCAR IMO / IMDG (INTERNATIONAL UN3295, HYDROCAR OCTENE) IATA (INTERNATIONAL	nation shown here, may not always agree with the bill of lading shipping al. Flashpoints for the material may vary slightly between the SDS and th ES DEPARTMENT OF TRANSPORTATION) BONS, LIQUID, N.O.S., 3, II ONAL MARITIME DANGEROUS GOODS)
etc.) Therefore, the inform description for the materia bill of lading. US DOT (UNITED STATE UN3295, HYDROCAR IMO / IMDG (INTERNATIONAL UN3295, HYDROCAR UN3295, HYDROCAR	al. Flashpoints for the material may vary slightly between the SDS and th ES DEPARTMENT OF TRANSPORTATION) BONS, LIQUID, N.O.S., 3, II ONAL MARITIME DANGEROUS GOODS) BONS, LIQUID, N.O.S., 3, II, (13 °C c.c.), MARINE POLLUTANT, (1- AIR TRANSPORT ASSOCIATION)

AlphaPlus® 1-Octene Version 1.14 Revision Date 2023-12-27 UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (1-OCTENE) **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))** 33, UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (1-OCTENE) ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (1-OCTENE) Other information : Octene (all isomers), S.T.2, Cat. Y Maritime transport in bulk according to IMO instruments **SECTION 15: Regulatory information** Classification and Labeling of : Primary label: Combustible Liquid. **Commonly Used Dangerous** Chemical Substances **Notification status** Europe REACH This product is in full compliance according to REACH regulation 1907/2006/EC. 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 2 DSL Australia AIIC On the inventory, or in compliance with the inventory Japan ENCS On the inventory, or in compliance with the inventory New Zealand NZIoC 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, 2 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

SDS Number:100000068580

Version 1.14

Revision Date 2023-12-27

SAFETY DATA SHEET

SECTION 16: Other information

Further information

Legacy SDS Number : PE0017

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.

k	Key or legend to abbreviations and a	cronyms used	d 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

SDS Number:10000068580