SAFETY DATA SHEET



AlphaPlus® 1-Tetradecene

Version 1.13

Revision Date 2023-10-23

according to GB/T 16483 and GB/T 17519

Product information Product Name : AlphaPlus® 1-Tetradecene Material : 1128492, 1064098, 1037032, 1037031 Company : 1128492, 1064098, 1037032, 1037031 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) CHEMTREC 800.424.9300 or 703.527.3887(int'l) CHEMTREC 800.424.9300 or 703.527.3887(int'l) CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 101-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159639431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +431 1406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: =3861 2348 342 (24 hours/day, 7 days/week) Eclend: 543 2224 915 907 Prance: 00700 21679777 (24 hours/day, 7 days/week) Ecledat: 543 2224 915 402 Denmark: Danish Poison Center (Gittinjen): +45 45 59 59 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Irinland: BIG +32.14.584545 (phone) or		of the substance/mixture and of the company/undertaking
Material : 1128492, 1064098, 1037032, 1037031 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 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: +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) Hinland: 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) Iungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Iceland: 543 2242 (24 hours/day, 7 days/week) Iungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2242 (24 hours/day, 7 days/week) Iceland: 543 224 (24 hours/day, 7 days/week) Iceland: 543 224 (24 hours/day, 7 days/week) Iceland: 543 2242 (24 hours/day, 7 days/week) Iceland: 543 2242 (24 hours/day, 7 days/week) Iceland: 543 2245 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax	Product information	
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Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052	1.832.813.4984 (In Transport : CHEMTREC 800.4 Asia: CHEMWATC Mexico CHEMTRE South America SO3 Argentina: +(54)-11 EUROPE: BIG +32 Austria: VIZ +43 1 4 Belgium: 070 245 2 Bulgaria: +359 2 91 Croatia: +3851 234 Cyprus: 1401 Czech Republic: To Denmark: Danish F Estonia: BIG +32.1 Finland: 0800 147 France: ORFILA nu Germany: BIG +32 Greece: (0030) 210 Hungary: +36-80-2 Iceland: 543 2222 (Ireland: BIG +32.14.55 Latvia: State Fire a Poisoning and Dru 67042473. (24 hou Liechtenstein: BIG	ernational) 24.9300 or 703.527.3887(int'l) + (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 14.584545 (phone) or +32.14583516 (telefax) 106 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 54 233 8 342 (24 hours/day, 7 days/week) xicological Information Center +420 224 919 293, +420 224 915 402 oison Center (Giftlinjen): +45 8212 1212 4.584545 (phone) or +32.14583516 (telefax) 11 09 471 977 (24 hours/day) mber (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 14.584545 (phone) or +32.14583516 (telefax) 7793777 (24 hours/day, 7 days/week) 01-199 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week) 2584545 (phone) or +32.14583516 (telefax) 34545 (phone) or +32.14583516 (telefax) 34

	SAFETY DATA SHEE
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rsion 1.13	Revision Date 2023-10-2
Malta: +356 2395 2000 The Netherlands: NVIC: + Norway: 22 59 13 00 (24 h Poland: BIG +32.14.58454 Portugal: CIAV phone nun Romania: +40213183606 Slovakia: +421 2 5477 416 Slovenia: Phone number:	hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) nber: +351 800 250 250 66 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identificati	ion
(GHS 2011) Emergency Overview	
Danger	
Danger Form: liquid Physical stat	e: liquid Color : Colorless
	e: liquid Color : Colorless : May be fatal if swallowed and enters airways.
Form: liquid Physical stat Hazards	
Form: liquid Physical stat	
Form: liquid Physical stat Hazards	: May be fatal if swallowed and enters airways.
Form: liquid Physical stat Hazards Classification	: May be fatal if swallowed and enters airways.
Form: liquid Physical stat Hazards Classification Labeling	: May be fatal if swallowed and enters airways.
Form: liquidPhysical statHazardsClassificationLabelingSymbol(s)	 May be fatal if swallowed and enters airways. Aspiration hazard, Category 1 :
Form: liquid HazardsPhysical stat Physical statClassificationLabeling Symbol(s)Signal Word	 May be fatal if swallowed and enters airways. Aspiration hazard, Category 1 : Output: : Danger
Form: liquid Physical stat Hazards Classification Labeling Symbol(s) Signal Word Hazard Statements	 May be fatal if swallowed and enters airways. Aspiration hazard, Category 1 Aspiration hazard, Category 1 Danger Danger H304: May be fatal if swallowed and enters airways. 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

Version 1.13

Revision Date 2023-10-23

SAFETY DATA SHEET

	:		1-ene (C14H28) cene (C14H28) ′C14H28)	
Aolecular formula	:	C14H28	, ,	
<u>.</u>				
Chemical name			CAS-No. / EINECS-No.	Concentratior [wt%]
1-Tetradecene			1120-36-1	94
2-Butyl-1-Decene			51655-65-3	2
2-Ethyl-1-Dodecene			19780-34-8	2
2-Hexyl-1-Octene			19780-80-4	1
Related Materials				1
ION 4: First aid measures	5			
		_		
Seneral advice	:	sheet to th	of dangerous area. Show this ne doctor in attendance. Mate otentially fatal pneumonia if sv	rial may produce a
f inhaled	:		cious, place in recovery position symptoms persist, call a phys	
n case of eye contact	:	lenses. P	s with water as a precaution. rotect unharmed eye. Keep e eye irritation persists, consult	ye wide open while
f swallowed	:	an uncons	biratory tract clear. Never give scious person. If symptoms per mimmediately to hospital.	
ION 5: Firefighting measure	ures			
Flash point	:	107°C (22	25°F)	
Autoignition temperature	:	235°C (4	55°F)	
Jnsuitable extinguishing nedia	:	High volu	me water jet.	
Special protective equipment for fire-fighters	:	Wear self necessary	-contained breathing apparatu	s for firefighting if
Further information	:	measures	procedure for chemical fires. that are appropriate to local c ng environment.	
Fire and explosion protection	:	Normal m	easures for preventive fire pro	tection.

SAFETY DATA SHEET

Version 1.13

Revision Date 2023-10-23

	mea	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	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
CTION 7: Handling and stora	age	
Handling		
Advice on safe handling	:	Do not breathe vapors/dust. 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.
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.
CTION 8: Exposure controls	/per	sonal protection
t applicable Engineering measures		
0 0		
Adequate ventilation to contr Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	ds o ces i nt. I f this ould	irborned concentrations below the exposure guidelines/limits. f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting if engineering controls or work practices are not adequate to preven is material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with is usually provided for a limited time or under certain circumstances.
Adequate ventilation to contr Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user sho	ds o ces i nt. I f this ould on is	f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting of engineering controls or work practices are not adequate to prever a material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with a usually provided for a limited time or under certain circumstances.
Adequate ventilation to contr Consider the potential hazar activities, and other substand personal protective equipme exposure to harmful levels of recommended. The user shi the equipment since protection	ds o ces i nt. I f this ould on is	f this material (see Section 2), applicable exposure limits, job in the work place when designing engineering controls and selecting of engineering controls or work practices are not adequate to prever a material, the personal protective equipment listed below is read and understand all instructions and limitations supplied with a usually provided for a limited time or under certain circumstances.

haPlus® 1-Tetrade	テレビト	
sion 1.13		Revision Date 2023-10
		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 according to the amount and concentration of the substance and the task performed at the work place. Appropriate PPE may include:. Protective suit. Safety shoes. 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.
TION 9: Physical and cher	mical	properties
Information on basic physic	sical	and chemical properties
Appearance		
Form	:	liquid
Physical state Color	:	liquid Colorless
Physical state	:	
Physical state Color	:	
Physical state Color Safety data		Colorless
Physical state Color Safety data Flash point	:	Colorless 107°C (225°F)
Physical state Color Safety data Flash point Lower explosion limit	:	Colorless 107°C (225°F) > 0.5 %(V)
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit	:	Colorless 107°C (225°F) > 0.5 %(V) < 5.4 %(V)
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties	:	Colorless 107°C (225°F) > 0.5 %(V) < 5.4 %(V) no
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature	::	Colorless 107°C (225°F) > 0.5 %(V) < 5.4 %(V) no 235°C (455°F)
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular formula	::	Colorless $107^{\circ}C (225^{\circ}F)$ > 0.5 %(V) < 5.4 %(V) no $235^{\circ}C (455^{\circ}F)$ C14H28
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular formula Molecular weight	:	Colorless $107^{\circ}C (225^{\circ}F)$ > 0.5 %(V) < 5.4 %(V) no $235^{\circ}C (455^{\circ}F)$ C14H28 196.42 g/mol
Physical state Color Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature Molecular formula Molecular weight pH	:	Colorless 107°C (225°F) > 0.5 %(V) < 5.4 %(V) no 235°C (455°F) C14H28 196.42 g/mol Not applicable

SAFETY	DATA	SHEET

Version 1.13	Revision Date 2023-10-23
Melting point/range	-13.9°C (7.0°F)
Boiling point/boiling range	: 251°C (484°F)
Vapor pressure	: 0.01 MMHG at 25°C (77°F)
	< 0.10 kPa at 65°C (149°F)
Relative density	: 0.77 at 15.6 °C (60.1 °F)
Density	: 775 kg/m3 at 15°C (59°F)
	774 kg/m3 at 25°C (77°F)
	750 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 2.61 cSt at 20°C (68°F)
Relative vapor density	: 6.8 (Air = 1.0)
Evaporation rate	: No data available

SECTION 10: Stability and reactivity

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.
Conditions to avoid	: No data available.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
SDS Number:100000067489	6/12

ohaPlus® 1-Tetradec	SAFETY DATA SH
sion 1.13	Revision Date 2023-1
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological infor	mation
AlphaPlus® 1-Tetradecene Acute oral toxicity	 LD50: > 5,000 mg/kg Species: Rat Sex: male and female Information given is based on data obtained from similar substances.
AlphaPlus® 1-Tetradecene Acute inhalation toxicity	 : LC50: > 5 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist Method: Acute toxicity estimate Information given is based on data obtained from similar substances. Not classified due to data which are conclusive although insufficient for classification.
AlphaPlus® 1-Tetradecene Acute dermal toxicity	 LD50 Dermal: > 2,020 mg/kg Species: Rabbit Sex: male and female Information given is based on data obtained from similar substances.
AlphaPlus® 1-Tetradecene Skin irritation	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.
AlphaPlus® 1-Tetradecene Eye irritation	: No eye irritation Information given is based on data obtained from similar substances.
AlphaPlus® 1-Tetradecene Sensitization	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Genotoxicity in vitro	
1-Tetradecene	: Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
Number:100000067489	7/12

phaPlus® 1-Tetradec	SAFETY DATA SHEE
ersion 1.13	Revision Date 2023-10-2
	Test Type: Mammalian cell gene mutation assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
Genotoxicity in vivo	
1-Tetradecene	: Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) Result: negative
Reproductive toxicity	
1-Tetradecene	: Species: Rat Sex: male Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Exposure time: 43-47 days Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg
	Species: Rat Sex: female Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg Exposure time: 46-47 days Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg
AlphaPlus® 1-Tetradecene Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
1-Tetradecene	 Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Reproductive toxicity: No toxicity to reproduction
AlphaPlus® 1-Tetradecene Further information	: Solvents may degrease the skin.
ECTION 12: Ecological informat	ion
Ecotoxicity effects Toxicity to fish	
DS Number:100000067489	8/12

phaPlus® 1-Tetradece	SAFETY DATA SHE
ersion 1.13	Revision Date 2023-10-
1-Tetradecene	 LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes Method: OECD Test Guideline 203 The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to daphnia and othe	r aquatic invertebrates
1-Tetradecene	 EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Test substance: yes Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.
Toxicity to algae	
1-Tetradecene	 EL50: > 1,000 mg/l Exposure time: 96 h Species: Selenastrum capricornutum (algae) static test Test substance: yes Method: OECD Test Guideline 201 The product has low solubility in the test medium. An aqueous dispersion was tested.
Biodegradability	: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
Elimination information (persist	ence and degradability)
Bioaccumulation	: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Mobility	: No data available
Results of PBT assessment 1-Tetradecene	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information Ecotoxicology Assessment	: No data available
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
S Number:100000067489	9/12

Version 1.13

Revision Date 2023-10-23

SECTION 13: Disposal considerations

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.

Product	Do not dispose of waste into sewer. Do not contamin ponds, waterways or ditches with chemical or used c Send to a licensed waste management company.	
Contaminated packaging	Empty remaining contents. Dispose of as unused pro Do not re-use empty containers.	oduct.

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.

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

SDS Number:100000067489

10/12

InhaDluc® 1 Tatradacan	SAFETY DATA SHEE				
IphaPlus® 1-Tetradecen					
ersion 1.13	Revision Date 2023-10-2				
TRANSPORTATION BY THIS	AGENCY.				
Other information :	OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y				
Maritime transport in bulk according to IMO instruments					
ECTION 15: Regulatory information					
Notification status Europe REACH Switzerland CH INV United States of America (USA)	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the 				
TSCA Canada DSL	TSCA inventoryAll components of this product are on the Canadian DSL				
Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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). 				
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 				
CTION 16: Other information					
Further information					
Legacy SDS Number :	PE0020				
Significant changes since the last previous versions.	t version are highlighted in the margin. This version replaces all				
The information in this SDS perta	ins only to the product as shipped.				
information and belief at the date guidance for safe handling, use, p not to be considered a warranty of	Safety Data Sheet is correct to the best of our knowledge, of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the may not be valid for such material used in combination with any , unless specified in the text.				
Key or legend to abb	reviations and acronyms used in the safety data sheet				

SAFETY DATA SHEET

Version 1.13

Revision Date 2023-10-23

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		5,
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
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
0110	Values	5054	
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery
		OTEL	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 Decearch	TLV	Threshold Limit Value
IARC	International Agency for Research on Cancer	ILV	Infestioid Limit Value
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
IECSC	Substances in China	IVVA	Time weighted Average
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances	1004	
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
ILCI	Inventory	0100	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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