SAFETY DATA SHEET



AlphaPlus® 1-Hexadecene

Version 1.15

Revision Date 2023-10-23

according to GB/T 16483 and GB/T 17519

Product information Product Name : AlphaPlus® 1-Hexadecene Material : 1128490, 1076762, 1037049, 1037048 Company : 1128490, 1076762, 1037049, 1037048 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: S102.84545 (phone) or +32.14583516 (telefax) Austria: 102.7452.452 (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) Careatia: +3851 2348 342 (24 hours/day, 7 days/week) Belgium: 070.245 245 (24 hours/day, 7 days/week) Careatia: a3851 2348 342 (24 hours/day, 7 days/week) Finland: 0800 147 111 09 471 977 (24 hours/day, 7 days/week) Careatia: b385 29 (24 hours/day, 7 days/week) Finland: 0800 147 111 09 471 977 (24 hours/day, 7 days/week) Careatia: b385 29 (24 hours/day, 7 days/week) Careatia: a385 2348 342 (24 hours/day, 7 days/week) Careatia: b385 29 (24 hours/day, 7 days		
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	1.832.813.4984 (Int Transport : CHEMTREC 800.42 Asia: CHEMWATCH Mexico CHEMTREC South America SOS 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 P Estonia: BIG +32.14 Finland: 0800 147 1 France: ORFILA nu Germany: BIG +32.14 Iceland: 543 2222 (Ireland: BIG +32.14 Italy: BIG +32.14.58	ernational) 24.9300 or 703.527.3887(int'l) 1 (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) 3-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 14.584545 (phone) or +32.14583516 (telefax) 06 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week) 54 233 3 342 (24 hours/day, 7 days/week) xicological Information Center +420 224 919 293, +420 224 915 402 oison Center (Giftlinjen): +45 8212 1212 k.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)

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Malta: +356 2395 2000 The Netherlands: NVIC Norway: 22 59 13 00 (2 Poland: BIG +32.14.58 Portugal: CIAV phone r Romania: +4021318360 Slovakia: +421 2 5477 Slovenia: Phone number	: +31 (0)88 755 8000 4 hours/day, 7 days/week) 4545 (phone) or +32.14583516 (telefax) humber: +351 800 250 250 06 4166 er: 112 ency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (2 k)
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identific	ation
Emergency Overview	
Danger Physical state: liquid Hazards	: Causes mild skin irritation. May be fatal if swallowed and enters
Physical state: liquid	
Physical state: liquid Hazards	: Causes mild skin irritation. May be fatal if swallowed and enters
Physical state: liquid Hazards	 Causes mild skin irritation. May be fatal if swallowed and enters airways. Skin corrosion/irritation, Category 3
Physical state: liquid Hazards Classification	 Causes mild skin irritation. May be fatal if swallowed and enters airways. Skin corrosion/irritation, Category 3
Physical state: liquid Hazards Classification Labeling	 Causes mild skin irritation. May be fatal if swallowed and enters airways. Skin corrosion/irritation, Category 3
Physical state: liquid Hazards Classification Labeling Symbol(s)	 Causes mild skin irritation. May be fatal if swallowed and enters airways. Skin corrosion/irritation, Category 3 Aspiration hazard, Category 1 :
Physical state: liquid Hazards Classification Labeling Symbol(s) Signal Word	 Causes mild skin irritation. May be fatal if swallowed and enters airways. Skin corrosion/irritation, Category 3 Aspiration hazard, Category 1 • Output • Danger • H304: May be fatal if swallowed and enters airways.

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		P501: I disposal	Dispose of contents/ contain plant.	er to an approved waste
TION 3: Composition/info	rmatio	on on ingr	edients	
Synonyms	:	NAO 16 1-Hexadeo (C16 H32)		
Molecular formula	:	C16H32		
Chemical name			CAS-No. / EINECS-No.	Concentration [wt%]
1-Hexadecene			629-73-2	93
2-Butyl-1-Dodecene			115146-98-0	2
2-Ethyl-1-Tetradecene			56919-55-2	2
2-Hexyl-1-Decene			13043-55-5	2
General advice	:	sheet to th	of dangerous area. Show th le doctor in attendance. Mat otentially fatal pneumonia if s	erial may produce a
If inhaled	:		ious, place in recovery positi symptoms persist, call a phy	
In case of skin contact			ation persists, call a physicia . If on clothes, remove cloth	
In case of eye contact		lenses. Pi	s with water as a precaution. rotect unharmed eye. Keep eye irritation persists, consu	eye wide open while
If swallowed	:	give anyth	iratory tract clear. Do NOT i ing by mouth to an unconsci persist, call a physician. Ta	ous person. If
TION 5: Firefighting meas	ures			
Flash point	:	132°C (27 Method: P		
Autoignition temperature	:	240°C (46	64°F)	
			ne water jet.	
Unsuitable extinguishing media	:	High volun		
	:	High volur	3/13	

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Specific hazards during fire	:	
fighting	•	Standard procedure for chemical mes.
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	:	No data available.
TION 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	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	ge	
Handling		
Handling Advice on safe handling	:	Do not breathe vapors or spray mist. 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.
-	:	see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in
Advice on safe handling Advice on 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 safe handling Advice on protection against fire and explosion	:	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 safe handling Advice on protection against fire and explosion Storage Requirements for storage	: : /per	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. Normal measures for preventive fire protection. 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.
Advice on safe handling Advice on protection against fire and explosion Storage Requirements for storage areas and containers CTION 8: Exposure controls/	: : /per	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. Normal measures for preventive fire protection. 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.
Advice on safe handling Advice on protection against fire and explosion Storage Requirements for storage areas and containers CTION 8: Exposure controls/ applicable Engineering measures	-	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. Normal measures for preventive fire protection. 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.
Advice on safe handling Advice on protection against fire and explosion Storage Requirements for storage areas and containers CTION 8: Exposure controls/ applicable Engineering measures	-	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. Normal measures for preventive fire protection. 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.

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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 Dusts and Mists / P100. 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:. 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.

SECTION 9: Physical and chemical properties

Appearance	
Physical state Color	: liquid : Clear, colorless
Safety data	
Flash point	: 132°C (270°F) Method: PMCC
Lower explosion limit	: 0.5 %(V)
Upper explosion limit	: 5.8 %(V)
Oxidizing properties	: no

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Autoignition temperature	: 240°C (464°F)
Molecular formula	: C16H32
Molecular weight	: 224.48 g/mol
рН	: Not applicable
Melting point/range	: 4°C (39°F)
Freezing point	4°C (39°F)
Pour point	No data available
Boiling point/boiling range	: 285°C (545°F)
Vapor pressure	: 0.00 MMHG at 25°C (77°F)
	< 0.01 kPa at 65°C (149°F)
Relative density	: 0.78 at 15.6 °C (60.1 °F)
Density	: 785 kg/m3 at 15°C (59°F)
	780 kg/m3 at 20°C (68°F)
	760 kg/m3 at 50°C (122°F)
Water solubility	: Soluble in hydrocarbons; insoluble in water
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 3.83 cSt at 20°C (68°F)
Relative vapor density	: 7.72 (Air = 1.0)
Evaporation rate	: No data available
CTION 10: Stability and react	ivity
Reactivity	: Stable at normal ambient temperature and pressure.
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Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Materials to avoid Hazardous decomposition	 May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. No data available
products	
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	nation
Acute oral toxicity	
1-Hexadecene	: LD50: 10 g/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401 Test substance: yes
Acute inhalation toxicity	
1-Hexadecene	: LC50: > 8.5 mg/IExposure time: 1 h Species: Rat Sex: male Test atmosphere: dust/mist
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.
AlphaPlus® 1-Hexadecene Skin irritation	: Mild 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-Hexadecene Eye irritation	: Vapors may cause irritation to the eyes, respiratory system and the skin.
Sensitization	
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1-Hexadecene	: 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.
	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.

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Genotoxicity in vitro	
1-Hexadecene	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
	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
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 bwday NOAEL F1: 1000 mg/kg bw/day Information given is based on data obtained from similar substances.
AlphaPlus® 1-Hexadecene 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-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.
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	Reproductive toxicity: No toxicity to reproduction
AlphaPlus® 1-Hexadecene Further information	: Solvents may degrease the skin.
TION 12: Ecological informati	on
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.
Toxicity to daphnia and other	r aquatic invertebrates
1-Hexadecene	: EL50: < 1000 mg/L Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202 The product has low solubility in the test medium. An aqueous dispersion was tested.
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.
Biodegradability	
1-Hexadecene	: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
Bioaccumulation	
1-Hexadecene	: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Mobility	
1-Hexadecene	: No data available
Results of PBT assessment 1-Hexadecene	: Non-classified PBT substance, Non-classified vPvB substance
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Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
	No data available
Ecotoxicology Assessme	nt
Short-term (acute) aquatic hazard	: No toxicity at the limit of solubility.
Long-term (chronic) aquatic 1-Hexadecene	 hazard This material is not expected to be harmful to aquatic organisms.
CTION 13: Disposal conside	erations
The information in this SDS	pertains only to the product as shipped.
may meet the criteria of a h other State and local regula regulated components may	d purpose or recycle if possible. This material, if it must be discarded, azardous waste as defined by US EPA under RCRA (40 CFR 261) or ations. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is vaste, federal law requires disposal at a licensed hazardous waste
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.
CTION 14: Transport inform	nation
	s shown here are for bulk shipments only, and may not apply to ckages (see regulatory definition).
Goods Regulations for addi etc.) Therefore, the information	nestic or international mode-specific and quantity-specific Dangerous tional shipping description requirements (e.g., technical name or name ation shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and t
	S DEPARTMENT OF TRANSPORTATION) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY.
	NAL MARITIME DANGEROUS GOODS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR ′ THIS AGENCY.
	IR TRANSPORT ASSOCIATION)
	A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR 7 THIS AGENCY.

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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.				
Other information : OLEFINS (C13 +, all isomers), S.T. 2, Cat.Y				
Maritime transport in bulk accord	ling to IMO instruments			
TION 15: Regulatory information				
Notification status Europe REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.			
Switzerland CH INV United States of America (USA) TSCA	 On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory 			
	: On the inventory, or in compliance with the inventory			
Canada DSL				
Australia AIIC	: On the inventory, or in compliance with the inventory			
	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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). 			

AlphaPlus® 1-Hexadecene

Version 1.15

Revision Date 2023-10-23

SECTION 16: Other information

Further information

Legacy SDS Number : PE0021

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 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:100000065709