SAFETY DATA SHEET



AlphaPlus Normal Alpha Olefins

Version 1.11

Revision Date 2024-01-17

Product information Product Name :: AlphaPlus® 1-Tetradecene Material :: 1128492, 1064098, 1037032, 1037031 Company :: 1128492, 1064098, 1037032, 1037031 Company :: Chevron Phillips Chemical Company LP Mormal Alpha Olefins (NAO) 10001 Six Pines Drive The Woodlands, TX 77380 Emergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transpor: CHEMTREC 800.424.9300 or 703.527.3887(int!) Asia: CHEMTREC 842.9628 (North America) 1.832.813.4984 (International) Transpor: CHEMTREC 800.424.9300 or 703.527.3887(int!) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01.800-881 Pasil: 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) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 243 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Bulgaria: +3592 9154 232 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) France: Cooidon 2107777 (24 hours/day, 7 days/week) Cermany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greace: (0003) 2107777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Hungary	Product Name	
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SAFETY DATA SHEET

Version 1.11

Revision Date 2024-01-17

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 SDS@CPChem.com E-mail address Website www.CPChem.com **SECTION 2: Hazards identification** Classification of the substance or mixture GHS Classification and labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015) Classification

: Aspiration hazard, Category 1

Danger

Labeling

Symbol(s)

Signal Word

Hazard Statements

: H304: May be fatal if swallowed and enters airways.

Precautionary Statements : **Prevention:** P273: Avoid release to the environment. **Response:** P301 + P310: IF SWALLOWED: Immediately call a POISON

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CENTER/ doctor. P331: Do NOT induce vomiting. **Storage:** P405: Store locked up. **Disposal:** P501: Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Synonyms	:	Tetradec-1-ene (C14H28)
		1-Tetradecene (C14H28)
		NAO 14 (C14H28)

Molecular formula : C	14H28		
Chemical name	CAS-No.	Concentration	ENCS/ISHL number
1-Tetradecene	1120-36-1	94%	2-27
2-Butyl-1-Decene	51655-65-3	2%	2-27
2-Ethyl-1-Dodecene	19780-34-8	2%	2-27
2-Hexyl-1-Octene	19780-80-4	1%	2-29 2-27
Related Materials		1%	

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	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
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.
ECTION 5: Firefighting mea	sures

OF OTHER OF THE USE OF	
Flash point Autoignition temperature	: 107°C (225°F) : 235°C (455°F)
Autoignition temperature	. 235 C (455 F)
SDS Number:100000067489	3/13

resion 1.11 Revision Date 2024-01- Unsuitable extinguishing media High volume water jet. Specific hazards during fire issues that are appropriate to local circumstances and the surrounding environment. Specific hazards during fire issues that are appropriate to local circumstances and the surrounding environment. Special protective equipment for fire-fighters in necessary. Further information issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Fire and explosion issues that are appropriate to local circumstances and the surrounding environment. Erton 6: Accidental release measures Personal precautions issues that are appropriate to local circumstances and the surrounding environment. Environmental precautions issues that are appropriate appleciation afform respective authorities. Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, sawdust). Keep in suita	IphaPlus® 1-Tetrade	SAFETY DATA SHEE
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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 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.

SECTION 9: Physical and chemical properties

Appearance	
Form Physical state Color	: liquid : liquid : Colorless
Safety data	
Flash point	: 107°C (225°F)
Lower explosion limit	: > 0.5 %(V)

Wash hands before breaks and at the end of workday.

haPlus® 1-Tetradeo	SAFETY DATA SHE
sion 1.11	Revision Date 2024-01
Upper explosion limit	: < 5.4 %(V)
Oxidizing properties	: no
Autoignition temperature	: 235°C (455°F)
Molecular formula	: C14H28
Molecular weight	: 196.42 g/mol
рН	: Not applicable
Pour point	: No data available
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-	: No data available
octanol/water Viscosity, kinematic	: 2.61 cSt at 20°C (68°F)
Relative vapor density	: 6.8 (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	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	: No decomposition if stored and applied as directed.
CTION 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.
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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
	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.
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	Reproductive toxicity: No toxicity to reproduction
AlphaPlus® 1-Tetradecene Further information	: Solvents may degrease the skin.
TION 12: Ecological informat	ion
Ecotoxicity effects Toxicity to fish	
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 (persis	tence 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 substanc
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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.					
ECTION 13: Disposal considera	rtains only to the product as shipped.					
may meet the criteria of a haza other State and local regulation regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for necessary to make a correct determination. If this material is the, 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.					

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.

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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 ac	cording to IMO instruments					
ECTION 15: Regulatory informat	ion					
National legislation						
Poisonous and Deleterious S	ubstances Control Law					
	: Not applicable					
Industrial Safety and Health L	Industrial Safety and Health Law					
Substances Subject to be Notified Names	: Not applicable					
Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)	:					
Harmful Substances Required Permission for Manufacture	: Not applicable					
Hazardous Substances Subject to Labeling	: Not applicable					
Requirements Ordinance on Prevention of	: Not applicable					
Organic Solvent Poisoning Ordinance on Prevention of	: Not applicable					
Lead Poisoning Harmful Substances	: Not applicable					
Prohibited from Manufacture Ordinance on Prevention of Hazards Due to Specified	: Not applicable					
Chemical Substances Ordinance on Prevention of	: Not applicable					
Tetraalkyl Lead Poisoning	: Not applicable					
	: Not applicable					

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Substances Prevented From Impairment of Health	: Not List	applicable ed		
Chemical Substance Control	Law			
	Che	Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.		
		Amounts of Specific Chemical Substances in the ovements to the Management Thereof		
	: Not	applicable		
Other regulations				
Fire Service Law	Тур	Flammable liquids Type 3 petroleums Hazardous rank III		
High Pressure Gas Safety Act	: Not	applicable		
Explosive Control Law	: Not	Not applicable		
Vessel Safety Law	: Not	Not regulated as a dangerous good		
Aviation Law	: Not	Not regulated as a dangerous good		
Notification status Europe REACH Switzerland CH INV United States of America (USA TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI Philippines PICCS	:) : : : : :	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 inventory All components of this product are on the Canadian DSL 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).		
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		

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SECTION 16: Other information

Further information

Legacy SDS Number : PE0020

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.

۴	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	0 Effective Concentration		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			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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