SAFETY DATA SHEET



PAO 4FG

Version 2.6

Revision Date 2022-03-28

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1

Product information

Product Name	:	PAO 4FG
Material	:	1111728

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Decene, homopolymer, hydrogenated	68037-01-4 500-183-1	Chevron Phillips Chemical Company LP 01-2119486452-34-0000
1-Decene, homopolymer, hydrogenated	68037-01-4 500-183-1	Chevron Phillips Chemicals International NV 01-2119486452-34-0006
1-Decene, homopolymer, hydrogenated	68037-01-4 500-183-1	Chevron Phillips Chemical Company LP 01-2119486452-34-0000

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses Supported	 Manufacture Use as an intermediate Formulation Use in coatings – industrial Use in coatings – professional Use in Coatings - Consumer Lubricants - Industrial Lubricants - Professional Lubricants - Consumer Metal working fluids / rolling oils - Industrial Metal working fluids / rolling oils – Professional Functional Fluids - Industrial Functional Fluids - Professional Functional Fluids - Consumer Use in polymer production – industrial Agrochemical uses Other consumer uses
1.3	
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	Details of the supplier of th	e s	afety data sheet
	Company	:	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
	Local	:	Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium
			SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com
1.4	Emergency telephone:		
	Mexico CHEMTREC 01-8 South America SOS-Cote Argentina: +(54)-1159839 EUROPE: BIG +32.14.584 Austria: VIZ +43 1 406 43 Belgium: 070 245 245 (24 Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (Cyprus: 1401 Czech Republic: Toxicolog Denmark: Danish Poison (Estonia: BIG +32.14.5845 Finland: 0800 147 111 09 France: ORFILA number (Germany: BIG +32.14.5845 Greece: (0030) 21077937 Hungary: +36-80-201-199 Iceland: 543 2222 (24 hou Ireland: BIG +32.14.58454 Italy: BIG +32.14.58454 Latvia: State Fire and Res Poisoning and Drug Infor 67042473. (24 hours.) Liechtenstein: BIG +32.14 Lithuania: +370 (85) 2362 Luxembourg: (+352) 8002 Malta: +356 2395 2000 The Netherlands: NVIC: + Norway: 22 59 13 00 (24 F Poland: BIG +32.14.58454 Portugal: CIAV phone num Romania: +40213183606	onal 0 o 2 9 00-l c In 431 454 43 (24 gcer 45 (24 (24 (24 (24) (24) (24) (24) (24) (2	 r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 681-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) hours/day, 7 days/week) hours/day, 7 days/week) Il Information Center +420 224 919 293, +420 224 915 402 tter (Giftlinjen): +45 8212 1212 (phone) or +32.14583516 (telefax) 1 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) Hours/day, 7 days/week) Hours/day, 7 days/week Hours/day, 7 days/week Experimentation of telefax) (24 hours/day, 7 days/week) a for the state of telefax (telefax) a for the state of telefax) b for the state of telefax) c for the state of telefax) (24 hours/day, 7 days/week) a for the state of telefax (telefax) b for the state of telefax) c for the state of telefax) a for the state of telefax (telefax) b for the state of telefax) c for the state of telefax (telefax) c for the state of telefax) a for the state of telefax (telefax) b for the state of telefax) c for the state of telefax (telefax) b for the state of telefax) c for the state of telefax (telefax) c for the state of telefax (telefax) c for the state of telefax (telefax) c for the state of telefax) c for the state of telefax (telefax) c for the state of telefax (telefax) c for the state of telefax) c for the state of telefax (telefax) c for the state of telefax) c for the state of telefax (telefax) c for the state of telefax) c for the state of telefax (telefax) c for telefax (telefax) c for telefax (telefax)
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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 : : www.CPChem.com Website **SECTION 2: Hazards identification** Classification of the substance or mixture REGULATION (EC) No 1272/2008

Aspiration hazard, Category 1

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H304: May be fatal if swallowed and enters airways.

2.2

2.1

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms		
Signal Word	: Danger	
Hazard Statements	: H304	May be fatal if swallowed and enters airways.
	ecene, homopolymer,	hydrogenated
SECTION 3: Composition/infor	nation on ingredient	s
3.1 - 3.2 Substance or Mixture Synonyms	: Polyalphaolefin PAO	

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Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No	[wt%]
	Index No.	1272/2008)	
1-Decene, homopolymer,	68037-01-4	Asp. Tox. 1; H304	100
hydrogenated	500-183-1		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1

T. I	Description of first-aid meas	sur	es
	General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
	If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
	In case of skin contact	:	If on skin, rinse well with water. If on clothes, remove clothes. If skin irritation persists, 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	:	Do not ingest. If swallowed then seek immediate medical assistance. Keep respiratory tract clear. Do NOT induce vomiting. If symptoms persist, call a physician.

SECTION 5: Firefighting measures

	Flash point	:	219°C (426°F) Method: Cleveland Open Cup
	Autoignition temperature	:	343°C (649°F)
5.1	Extinguishing media		
	Unsuitable extinguishing media	:	High volume water jet.
5.2	Special hazards arising fror Specific hazards during fire fighting		he substance or mixture Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray.
5.3	Advice for firefighters Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
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	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	:	Carbon oxides.
SEC	CTION 6: Accidental release	me	asures
6.1	Personal precautions, prot	ecti	ive equipment and emergency procedures
	Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation.
6.2	Environmental precautions	5	
	Environmental precautions	:	No special environmental precautions required.
6.3	Methods and materials for Methods for cleaning up	cor :	ntainment and 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.
6.4	Reference to other sections	S	
			For personal protection see section 8. For disposal considerations see section 13. s not required for the environment. s not required for human health.
SEC	TION 7: Handling and stora	ge	
7.1	Precautions for safe handli Handling	ng	
	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.
7.2	Conditions for safe storage	e, in	ncluding any incompatibilities
	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.

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SECTION 8: Exposure controls/personal protection

8.2

Exposure controls Engineering measures

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	:	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator 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.

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

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Form Physical state Color Odor	: liquid : liquid : Clear, colorless : Odorless
Safety data	
Flash point	: 219°C (426°F) Method: Cleveland Open Cup
Autoignition temperature	: 343°C (649°F)
Boiling point/boiling range	: 414°C (777°F)
Vapor pressure	: 1,70 MMHG at 177°C (351°F)
Relative density	: 0,82 at 15,6 °C (60,1 °F)
Evaporation rate	: No data available
SECTION 10: Stability and reac	tivity
10.1	
Reactivity	: Stable at normal ambient temperature and pressure.
10.2	
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3	
Possibility of hazardous re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
10.4 Conditions to avoid	: No data available.
10.5 Materials to avoid	: No data available.
10.6 Hazardous decomposition products	
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological info	rmation
11.1	
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Information on toxicological effects				
PAO 4FG Acute oral toxicity	: LD50: > 5.000 mg/kg Species: Rat			
PAO 4FG Acute inhalation toxicity	: LC50: > 5,2 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: dust/mist			
PAO 4FG Acute dermal toxicity	: LD50: > 2.000 mg/kg Species: Rat			
PAO 4FG Skin irritation	: No skin irritation			
PAO 4FG Eye irritation	: No eye irritation			
Sensitization				
1-Decene, homopolymer, hydrogenated	: Classification: Did not cause sensitization on laboratory animals.			
PAO 4FG 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-Decene, homopolymer, hydrogenated	 Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Animal testing did not show any mutagenic effects. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction 			
PAO 4FG Further information	: Solvents may degrease the skin.			
CTION 12: Ecological inform	ation			
l Toxicity				
Ecotoxicity effects				
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Toxicity to fish :	LC50: > 1.000 mg/l Exposure time: 96 h Species: Salmo gairdneri (Rainbow trout)
	LC50: > 750 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and solution: to ther aquatic invertebrates	EC50: 190 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	
1-Decene, homopolymer, : hydrogenated	NOELR: 1.000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Method: OECD Test Guideline 201
12.2 Persistence and degradability	
Biodegradability	
hydrogenated	Expected to be inherently biodegradable.
12.3 Bioaccumulative potential	
Bioaccumulation	
hydrogenated	This material is not expected to bioaccumulate.
12.4 Mobility in soil	
Mobility	
1-Decene, homopolymer, : hydrogenated	No data available
12.5 Results of PBT and vPvB asse	essment
hydrogenated	Non-classified PBT substance, Non-classified vPvB substance
12.6 Other adverse effects Additional ecological : information Ecotoxicology Assessment	No data available
Short-term (acute) aquatic hazar 1-Decene, homopolymer, : hydrogenated	d This material is not expected to be harmful to aquatic organisms.
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SECTION 13: Disposal considerations

13.1

Waste treatment methods

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 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.	

A quantitative risk assessment is not required for the environment. A quantitative risk assessment is not required for human health.

SECTION 14: Transport information

14.1 - 14.7

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

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Chemical Safety Assessment Components : 1-Decene, homopolymer, has been carried out for this hydrogenated substance. Major Accident Hazard Legislation : 96/82/EC Update: 2003 Directive 96/82/EC does not apply Notification status Europe REACH : On the inventory, or in compliance with the inventory 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 Canada DSL : All components of this product are on the Canadian DSL Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory Japan ENCS : On the inventory, or in compliance with the inventory Korea KECI : All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is	Version 2.6	Revision Date 2022-03-28				
OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY. Maritime transport in bulk according to IMO instruments SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation, (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Water hazard class of R-sentence-classification procedure for all materials, which are not named in the appendices 1 and 2, on the basis of R-sentence-classifications of the European dangerous materials 15.2 Chemical Safety Assessment homopolymer, has been carried out for this hydrogenated substance. Major Accident Hazard Legislation : 96/82/EC Update: 2003 Directive 96/82/EC does not apply Notification status : On the inventory, or in compliance with the inventory Switzerland CH INV : On the inventory, or in compliance with the inventory Soft America USA Directive 96/82/EC or in compliance with the inventory Switzerland CH INV : On the inventory, or in compliance with the inventory Switzerland CH INV Statalia AICS : All components of this product are on the Canadian DSL Australia AICS : All components of this product were on the Canadian DSL Australia AICS : All substances in this product were	NOT REGULATED AS A HAZ	ZARDOUS MATERIAL OR DANGEROUS GOODS FOR				
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LegislationDirective 96/82/EC does not applyNotification status:Europe REACH:Switzerland CH INV:United States of America (USA):TSCA:Canada DSL:Australia AICS:New Zealand NZIoC:Japan ENCS:Korea KECI:On the inventory, or in compliance with the inventory:: <th>homo</th> <th>opolymer, has been carried out for this</th>	homo	opolymer, has been carried out for this				
 Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI Con the inventory, or in compliance with the inventory 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 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is 						
· · · · · · · · · · · · · · · · · · ·	Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS	 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 Notification number: HSR002606 On the inventory, or in compliance with the inventory All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to 				
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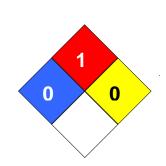
permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.

Philippines PICCS China IECSC Taiwan TCSI	 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

NFPA Classification

: Health Hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0



Further information

NSF H1, HX-1 Registered, meets USDA 1998 H1 Guidelines

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	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 Occupationa 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 Substance
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

SDS Number:100000101305

SAFETY DATA SHEET

Version 2.6

Revision Date 2022-03-28

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%		

Full text of H-Statements referred to under sections 2 and 3.

H304

May be fatal if swallowed and enters airways.