

Version 1.22 Revision Date 2021-12-07

MSDS number: AA00974-0000000143

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

Product Name : N-Octyl Mercaptan

Material 1115893, 1086427, 1092079, 1089361, 1086426, 1021507,

1021501, 1021505, 1021503, 1021502, 1021508, 1021506, 1021504, 1024813, 1026777, 1036311, 1021509, 1035162,

1024812, 1033723

Recommended use of the

product

: Process regulators, used in vulcanization or polymerization

processes

Restrictions on use : None known.

: Chevron Phillips Chemical Company LP **Address**

> **Specialty Chemicals** 10001 Six Pines Drive The Woodlands, TX 77380

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.

C/O DONG WOO CORPORATION

#B-2601, JEONGJAIL-RO,

BUNDANG-GU, SEONGNAMI-SI, GYEONGGI-DO,13557

SOUTH KOREA

Telephone no.: +612-9186-1132

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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

Appointees : 회사명: 리이치 24 시코리아㈜.

주소: 서울시 서초구 헌릉로 7,

외국기업창업지원연구센터

(IKP) 908-909호 전화: +82-1067838981

SECTION 2: Hazards identification

Hazard classification

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2020-130)

Classification

: Skin sensitization, Category 1 Aspiration hazard, Category 2

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

Warning label elements including precautionary statements

Symbol(s) :







Signal Word : Warning

Hazard Statements : H305: May be harmful if swallowed and enters airways.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and

water.

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P331: Do NOT induce vomiting.

P333 + P313: If skin irritation or rash occurs: Get medical

advice/ attention.

P362 + P364: Take off contaminated clothing and wash it

before reuse.

P391: Collect spillage.

Disposal:

P501: Dispose of contents and container according to wastes

control act.

Other hazards which do not result in classification

: None

SECTION 3: Composition/information on ingredients

Synonyms : 1-Octanethiol

normal-Octyl mercaptan

NOM NC8SH

Molecular formula : C8H18S

Molecular formula	. 0011100			
Common name	Synonyms	CAS-No.	Concentration	KECI Number
n-Octyl Mercaptan	octane-1-thiol	111-88-6	98.5 % - 100%	KE-26627

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.

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.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

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Take victim immediately to hospital.

Other cautions for Doctors

Symptoms : No information available.

Risks : No information available.

Treatment : No information available.

SECTION 5: Firefighting measures

Flash point : 69-71°C (156-160°F) at 101.325 kPa

Method: EU Method A.9

Autoignition temperature : No data available

Suitable extinguishing

media

: Carbon dioxide (CO2).

Unsuitable extinguishing

media

: High volume water jet.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition

products

: Carbon oxides. Sulfur oxides.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

Environmental precautions : Prevent product from entering drains. Prevent further leakage

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or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid

exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or

recurrent respiratory disease should not be employed in any

process in which this mixture is being used.

Advice on protection against fire and explosion

: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

Secure storage

Requirements for storage areas and containers

: No smoking. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical

installations / working materials must comply with the technological safety standards.

Uses advised against : None known.

Specific Use : Process regulators, used in vulcanization or polymerization

processes

SECTION 8: Exposure controls/personal protection

Chemical exposure standards, biological exposure standards, etc.

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

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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:. 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.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

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.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear

protecting against chemicals.

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

Information on basic physical and chemical properties

Appearance

Physical state : liquid
Color : Colorless
Odor : Pungent

Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Pour point No data available

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Boiling point/boiling range : 199°C (390°F)

Flash point : 69-71°C (156-160°F) at 101.325 kPa

Method: EU Method A.9

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapor pressure : 0.02 PSI

at 37.8°C (100.0°F)

Solubility : negligible

Relative density : 0.8460

at 15 °C (59 °F)

0.8420

at 20 °C (68 °F)

0.8174

at 50 °C (122 °F)

Vapor density : 1

(Air = 1.0)

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : 1.04 mm2/s

at 40°C (104°F)

Molecular weight : 146.32 g/mol

SECTION 10: Stability and reactivity

Reactivity : Stable under recommended storage conditions.

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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 reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

Hazardous decomposition

products

: Carbon oxides Sulfur oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Information on exposure routes

Acute oral toxicity

n-Octyl Mercaptan : LD50: 2,436 mg/kg

Species: Rat

Sex: male and female Method: Fixed Dose Method

Acute inhalation toxicity

n-Octyl Mercaptan : LC50: > 0.24 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: vapor

Method: OECD Test Guideline 403

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable

concentration.

Acute dermal toxicity

n-Octyl Mercaptan : LD50: > 1,680 mg/kg

Species: Rat

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Sex: male and female

Method: OECD Test Guideline 402

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Skin corrosion or irritation: slight irritation. largely based on animal evidence.

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Eye corrosion or irritation: slight irritation. largely based on animal evidence.

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Respiratory Sensitization : No data available

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Skin sensitization May cause sensitization by skin contact.

Repeated dose toxicity

n-Octyl Mercaptan : Species: Rat, males

Sex: males

Application Route: Oral Dose: 0, 10, 50, 250 mg/kg Exposure time: 35 D

Number of exposures: once daily

NOEL: 50 mg/kg

Method: OECD Guideline 422

Species: Rat, females

Sex: females

Application Route: Oral Dose: 0, 10, 50, 250 mg/kg Number of exposures: once daily

NOEL: 50 mg/kg

Method: OECD Guideline 422

Germ cell mutagenicity (in vitro)

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n-Octyl Mercaptan : Test Type: Reverse mutation assay

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation

assay)

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Sister chromatid exchange

Metabolic activation: with and without metabolic activation

Result: negative

Germ cell mutagenicity (in vivo)

n-Octyl Mercaptan : Test Type: Micronucleus test

Species: Mouse

Method: Mutagenicity (micronucleus test)

Result: negative

Developmental Toxicity

n-Octyl Mercaptan : Species: Rat

Application Route: Oral diet Dose: 0, 10, 50, 250 mg/kg Number of exposures: once daily NOAEL Teratogenicity: 250 mg/kg

Specific Target Organ Toxicity (Single Exposure)

Not classified due to data which are conclusive although

insufficient for classification.

Specific Target Organ Toxicity (Repeated Exposure)

Not classified due to data which are conclusive although

insufficient for classification.

Aspiration toxicity

n-Octyl Mercaptan : May be harmful if swallowed and enters airways.

CMR effects

n-Octyl Mercaptan : Mutagenicity: Tests on bacterial or mammalian cell cultures

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did not show mutagenic effects.

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

Reproductive toxicity

n-Octyl Mercaptan : Species: Rat

Sex: male

Application Route: Oral diet Dose: 0, 10, 50, 250 mg/kg Exposure time: 35 D

Number of exposures: once daily Method: OECD Guideline 422 NOAEL Parent: 250 mg/kg NOAEL F1: 250 mg/kg

Species: Rat Sex: female

Application Route: Oral diet Dose: 0, 10, 50, 250 mg/kg Number of exposures: once daily Method: OECD Guideline 422 NOAEL Parent: 50 mg/kg NOAEL F1: 250 mg/kg

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Further information : Solvents may degrease the skin.

SECTION 12: Ecological information

Ecological Toxicity

Toxicity to fish

n-Octyl Mercaptan : LC50: 0.326 mg/l

Exposure time: 96 h

Species: Oryzias latipes (Orange-red killifish) semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203

Very toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

n-Octyl Mercaptan : 0.0243 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) Immobilization Analytical monitoring: yes Method: OECD Test Guideline 202 Very toxic to aquatic organisms.

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Toxicity to algae

n-Octyl Mercaptan : 0.039 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (microalgae)

semi-static test Analytical monitoring: yes Method: OECD Test Guideline 201

Very toxic to algae.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

n-Octyl Mercaptan : > 0.00467 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea) Toxic effects on fish and plankton

Persistence and degradability

n-Octyl Mercaptan : Result: Not readily biodegradable.

0 %

Testing period: 28 Days

Method: OECD Test Guideline 301

Bioaccumulative

n-Octyl Mercaptan : Bioconcentration factor (BCF): 11.83

Method: QSAR modeled data

Mobility

n-Octyl Mercaptan : Medium: Soil

Method: Calculation, Mackay Level III Fugacity Model

This product may float or sink in water.

: Medium: Water

Method: Calculation, Mackay Level III Fugacity Model

This product may float or sink in water.

Other adverse effects : Very toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

n-Octyl Mercaptan : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

n-Octyl Mercaptan : Very toxic to aquatic life with long lasting effects.

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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.

Disposal method : The product should not be allowed to enter drains, water

courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed

waste management company.

Disposal precaution : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

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.

UN Number	:	UN3082
UN Product Shipping Name	:	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	:	9
Packing Group	:	III - Less Hazardous Properties
Marine Pollutant	:	Yes
Special Safety Measures on Mode of Transport	:	No data available

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NA1993, COMBUSTIBLE LIQUID, N.O.S., (N-OCTYL MERCAPTAN), III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL

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MERCAPTAN), 9, III, (69-71°C), MARINE POLLUTANT, (N-OCTYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III, (-)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

Regulation under the Occupational Safety and Health Act

A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

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Regulation		Chemical name	Threshold limits
Harmful Substances Prohibited from Manufacturing	:	Not applicable	
		Not applicable	
Harmful Substances Required Permission for Manufacture	:	Not applicable	
		Not applicable	

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

Regulation		Chemical name	Threshold limits
Toxic Chemicals	:	Not applicable	
		Not applicable	
Prohibited Chemicals	:	Not applicable	
		Not applicable	
Restricted Chemicals	:	Not applicable	
		Not applicable	
Toxic Release Inventory	:	Not applicable	
		Not applicable	

Dangerous Substances Safety Management Act

Dangerous Substances : Flammable liquids, Type 2 petroleums, Water insoluble liquid

Safety Management Act

Regulations by the Waste

Management Act

: n-Octyl Mercaptan: Designated Waste

Regulations by other domestic and foreign laws

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

TSCA inventory

Canada DSL : All components of this product are on the Canadian

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

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 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 : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

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Taiwan TCSI : On the inventory, or in compliance with the inventory

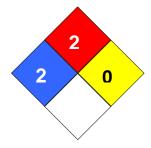
Other regulations : No data available

SECTION 16: Other information

Source of data	:	Korea. GHS based classification
Date of initial writing	:	2021-09-28
Revision number	:	1
Last revision date	:	2021-11-18

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Other information

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	LD50	Lethal Dose 50%		
	Government Industrial Hygienists				
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect		
	Substances		Level		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency		
	List				
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational		
	Substances List		Safety & Health		
CNS	Central Nervous System	NTP	National Toxicology Program		

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CAS	Chemical Abstract Service	NZIoC	New Zeeland Inventory of
CAS	Chemical Abstract Service	INZIOC	New Zealand Inventory of
5050		110 151	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
	Values		
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	TLV	Threshold Limit Value
	on Cancer		
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		- Indiana in angular i
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory	0.00	Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
`-	LCGS THAIT OF Equal TO	VVIIIVIIO	Information System
LC50	Lethal Concentration 50%		miorifiation System
LUOU	Letital Concentiation 50%		