

**Diacel® MS-1 Mutual Solvent**

Version 1.2

Revision Date 2019-12-12

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

Product Name : Diacel® MS-1 Mutual Solvent
Material : 1097190

Use : Oil Well Cement Spacer Fluid Additive

Company : Chevron Phillips Chemical Company LP
10001 Six Pines Drive
The Woodlands, TX 77380

Emergency telephone:**Health:**

866.442.9628 (North America)
1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
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
Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group
E-mail address : SDS@CPChem.com
Website : www.CPChem.com

SECTION 2: Hazards identification**Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

: Flammable liquids, Category 4
Acute toxicity, Category 4, Oral
Acute toxicity, Category 4, Inhalation
Acute toxicity, Category 4, Dermal
Skin irritation, Category 2
Eye irritation, Category 2A

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Labeling

Symbol(s)

:



Signal Word

:

Warning

Hazard Statements

:

H227: Combustible liquid.
 H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.

Precautionary Statements

:

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
 P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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SECTION 3: Composition/information on ingredients

Synonyms : Not Established

Molecular formula : C6H14O2

Component	CAS-No.	Weight %
Ethylene Glycol Monobutyl Ether (EGBE)	111-76-2	90 - 100

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. 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.

SECTION 5: Firefighting measuresFlash point : 67°C (153°F)
Method: closed cup

Autoignition temperature : No data available

Suitable extinguishing media : Carbon dioxide (CO2).

Unsuitable extinguishing media : High volume water jet.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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 an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

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SECTION 6: Accidental release measures

- Personal precautions : Use personal protective equipment.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- 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 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.
- Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

Storage

- Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Use : Oil Well Cement Spacer Fluid Additive

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****US**

Components	Basis	Value	Control parameters	Note
Ethylene Glycol Monobutyl Ether (EGBE)	ACGIH	TWA	20 ppm,	URT irr, eye irr, BEI, A3,
	OSHA Z-1	TWA	50 ppm, 240 mg/m3	X, (b),
	OSHA Z-1-A	TWA	25 ppm, 120 mg/m3	X,

- (b) The value in mg/m3 is approximate.
 A3 Confirmed animal carcinogen with unknown relevance to humans
 BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)
 eye irr Eye irritation
 URT irr Upper Respiratory Tract irritation
 X Skin notation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Ethylene Glycol Monobutyl Ether (EGBE)	111-76-2	Immediately Dangerous to Life or Health Concentration Value 700 parts per million	1995-03-01

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US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Ethylene Glycol Monobutyl Ether (EGBE)	111-76-2	Butoxyacetic acid (BAA): 200 mg/g Creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01

Engineering measures

Adequate ventilation to control airborne 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.

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: Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, 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: Flame retardant protective clothing. 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 : No data available
 Odor Threshold : No data available

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Safety data

Flash point	: 67°C (153°F) Method: closed cup
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Autoignition temperature	: No data available
Molecular formula	: C ₆ H ₁₄ O ₂
pH	: No data available
Melting point/range	: -75°C (-103°F)
Boiling point/boiling range	: 169-172.5°C (336-342.5°F)
Vapor pressure	: 10.00 MMHG at 81°C (178°F)
Partition coefficient: n-octanol/water	: log Pow: 0.83
Viscosity, kinematic	: No data available
Relative vapor density	: 4.08 (Air = 1.0)
Evaporation rate	: No data available

SECTION 10: Stability and reactivity

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 : Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

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

SECTION 11: Toxicological information

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Acute oral toxicity : Acute toxicity estimate: 1,300 mg/kg
Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg
Method: Calculation method

Skin irritation

Ethylene Glycol Monobutyl Ether (EGBE) : Skin irritation

Eye irritation

Ethylene Glycol Monobutyl Ether (EGBE) : Eye irritation

Sensitization

Ethylene Glycol Monobutyl Ether (EGBE) : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Ethylene Glycol Monobutyl Ether (EGBE) : Species: Rat, male and female
Sex: male and female
Application Route: Inhalation
Dose: 0.02, 0.12, 0.37 mg/l
Exposure time: 90 d
Number of exposures: 6 h/d, 5 d/wk
NOEL: 0.121 mg/l 24.6 ppm
Method: OECD Guideline 413
Target Organs: Blood

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Species: Rat, male
Sex: male
Application Route: Oral diet
Dose: 69, 129, 281, 367, 452 mg/kg b
Exposure time: 90 d
Number of exposures: Daily
Lowest observable effect level: 69.0 mg/kg
Method: OECD Test Guideline 408
Target Organs: Blood

Species: Rat, female
Sex: female
Application Route: Oral diet
Dose: 82, 151, 304, 363, 470 mg/kg b
Exposure time: 90 d
Number of exposures: Daily
Lowest observable effect level: 82 mg/kg
Method: OECD Test Guideline 408
Target Organs: Blood

Genotoxicity in vitro

Ethylene Glycol Monobutyl Ether (EGBE) : Test Type: Ames test
Result: negative

Test Type: Sister Chromatid Exchange Assay
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Carcinogenicity

Ethylene Glycol Monobutyl Ether (EGBE) : Species: Rat
Sex: male
Dose: 31.2, 62.5, 125 ppm
Exposure time: 2 yrs
Number of exposures: 6 h/d, 5 d/wk
Remarks: No evidence of carcinogenicity

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Species: Mouse
 Sex: male
 Dose: 62.5, 125, 250 ppm
 Exposure time: 2 yrs
 Remarks: increased incidence of hemangiosarcoma of the liver

Species: Mouse
 Sex: female
 Dose: 62.5, 125, 250 ppm
 Exposure time: 2 yrs
 Remarks: increased incidence of fore stomach squamous cell papilloma or carcinoma

Species: Rat
 Sex: female
 Dose: 31.2, 62.5, 125 ppm
 Exposure time: 2 yrs
 Number of exposures: 6 h/d, 5 d/wk
 Remarks: increased incidence of benign and malignant tumors of the adrenal medulla

Developmental Toxicity

Ethylene Glycol Monobutyl Ether (EGBE) : Species: Rat
 Application Route: Inhalation
 Dose: 0.12, 0.24, 0.48, 0.97 mg/l
 Number of exposures: 6 h/d
 Test period: GD 6-15
 NOAEL Teratogenicity: 0.24 mg/l
 NOAEL Maternal: 0.97 mg/l
 Animal testing did not show any effects on fetal development.

CMR effects

Ethylene Glycol Monobutyl Ether (EGBE) : Carcinogenicity: Limited evidence of carcinogenicity in animal studies
 Mutagenicity: In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects
 Teratogenicity: Animal testing did not show any effects on fetal development.
 Reproductive toxicity: No adverse effects expected

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Further information**

: No data available.

SECTION 12: Ecological information**Toxicity to fish**

Ethylene Glycol Monobutyl Ether (EGBE) : LC50: 1,464 mg/l
 Exposure time: 96 h
 Species: Oncorhynchus mykiss (rainbow trout)
 static test Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates

Ethylene Glycol Monobutyl Ether (EGBE) : EC50: 1,550 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 static test Method: OECD Test Guideline 202

Toxicity to algae

Ethylene Glycol Monobutyl Ether (EGBE) : EbC50: 911 mg/l
 Exposure time: 72 h
 Species: Pseudokirchneriella subcapitata (green algae)
 static test Method: OECD Test Guideline 201

Toxicity to bacteria

Ethylene Glycol Monobutyl Ether (EGBE) : IC50: > 1,000 mg/l
 Growth inhibition

Toxicity to fish (Chronic toxicity)

Ethylene Glycol Monobutyl Ether (EGBE) : NOEC: > 100 mg/l
 Exposure time: 21 d
 Species: Danio rerio (Zebra Fish)
 semi-static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylene Glycol Monobutyl Ether (EGBE) : NOEC: 100 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 semi-static test

Biodegradability

Ethylene Glycol Monobutyl Ether (EGBE) : aerobic
 Result: Readily biodegradable.
 90.4 %
 Testing period: 28 d
 Method: OECD Test Guideline 301B

Bioaccumulation

Ethylene Glycol Monobutyl Ether (EGBE) : Bioconcentration factor (BCF): < 100
 This material is not expected to bioaccumulate.

Mobility

Ethylene Glycol Monobutyl Ether (EGBE) : No data available
 Additional ecological information : This material is not expected to be harmful to aquatic organisms.

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Ecotoxicology Assessment

Short-term (acute) aquatic hazard

Ethylene Glycol Monobutyl Ether (EGBE) : This material is not expected to be harmful to aquatic organisms.

Long-term (chronic) aquatic hazard

Ethylene Glycol Monobutyl Ether (EGBE) : This material is not expected to be harmful to aquatic organisms.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not 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. 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.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NA1993, COMBUSTIBLE LIQUID, N.O.S., (ETHYLENE GLYCOL MONOBUTYL ETHER), III

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.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information**National legislation**

- SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
- CERCLA Reportable Quantity** : This material does not contain any components with a CERCLA RQ.
- SARA 302 Reportable Quantity** : This material does not contain any components with a SARA 302 RQ.
- SARA 302 Threshold Planning Quantity** : This material does not contain any components with a section 302 EHS TPQ.
- SARA 304 Reportable Quantity** : This material does not contain any components with a section 304 EHS RQ.
- SARA 313 Components** : The following components are subject to reporting levels established by SARA Title III, Section 313:
: Ethylene Glycol Monobutyl Ether (EGBE) - 111-76-2

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Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

: Ethylene Glycol Monobutyl Ether (EGBE) - 111-76-2

US State Regulations

Pennsylvania Right To Know

: Ethylene Glycol Monobutyl Ether (EGBE) - 111-76-2

California Prop. 65 Components

: WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ethylene Glycol

107-21-1

Notification status

Europe REACH	:	Not in compliance with the inventory
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA) TSCA	:	On or in compliance with the active portion of the TSCA inventory
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	:	A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations.

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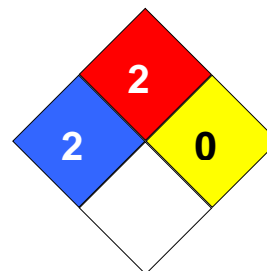
Revision Date 2019-12-12

Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.

Philippines PICCS : On the inventory, or in compliance with the inventory
 China IECSC : On the inventory, or in compliance with the inventory
 Taiwan TCSI : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2
 Fire Hazard: 2
 Reactivity Hazard: 0

**Further information**

Legacy SDS Number : CPC00410

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%
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 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

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			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%		