

Version 1.2 Revision Date 2016-08-02

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

Product information

Product Name : Acetylene

Material : 1091007, 1036981

Use : Chemical intermediate

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: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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

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.

Emergency Overview

Danger

Form: Compressed gas Physical state: Gaseous Color: Colorless Odor: garlic-like

OSHA Hazards : Flammable Gas, Compressed Gas

Classification

: Flammable gases, Category 1

Gases under pressure, Compressed gas

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Labeling

Symbol(s) :





Signal Word : Danger

Hazard Statements : H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

Precautionary Statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking. **Response:**

P377 Leaking gas fire: Do not extinguish, unless leak can be

stopped safely.

P381 Eliminate all ignition sources if safe to do so.

Storage:

P410 + P403 Protect from sunlight. Store in a well-ventilated

place.

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.

SECTION 3: Composition/information on ingredients

Synonyms : Ethyne

Molecular formula : C2H2

Component	CAS-No.	Weight %
Acetylene	74-86-2	97 - 100
Dimethylformamide	68-12-2	0 - 3
Ethane	74-84-0	0 - 2.5
Ethylene	74-85-1	0 - 2.5
Propylene	115-07-1	0 - 2

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.

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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.

SECTION 5: Firefighting measures

Flash point -17.7 °C (0.1 °F)

Method: closed cup

Autoignition temperature 305 °C (581 °F)

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use

only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon. Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Ensure adequate ventilation. Remove all sources of ignition.

> Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can

accumulate in low areas.

Environmental precautions Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

SECTION 7: Handling and storage

Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

> drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide

sufficient air exchange and/or exhaust in work rooms.

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Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

Prevent unauthorized access. No smoking. 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.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Ingredients	Basis	Value	Control parameters	Note
Acetylene	NIOSH REL	С	2,500 ppm, 2,662 mg/m3	
Dimethylformamide	ACGIH	TWA	10 ppm,	liver dam, BEI, A4, Skin,
	OSHA Z-1	TWA	10 ppm, 30 mg/m3	X, (b),
	OSHA Z-1-A	TWA	10 ppm, 30 mg/m3	X,
Ethylene	ACGIH	TWA	200 ppm,	asphyxia, A4,
Propylene	ACGIH	TWA	500 ppm,	URT irr, asphyxia, A4,

(b) The value in mg/m3 is approximate.

A4 Not classifiable as a human carcinogen

asphyxia Asphyxia

BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

liver dam Liver damage

Skin Danger of cutaneous absorption URT irr Upper Respiratory Tract irritation

X Skin notation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Dimethylformamide	68-12-2	Immediately Dangerous to Life or Health Concentration Value 500 ppm	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Dimethylformamide	68-12-2	N-Methylformamide: 15 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2007-01-01
		N-Acetyl-S-(N-methylcarbamoyl) cysteine: 40 mg/l (Urine)	Prior to last shift of workweek	2007-01-01

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits.

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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 : 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, exposure

levels are not known, or other circumstances where airpurifying 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. Safety glasses.

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 antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Compressed gas

Physical state : Gaseous
Color : Colorless
Odor : garlic-like

Safety data

Flash point : -17.7 °C (0.1 °F)

Method: closed cup

Lower explosion limit : 2.5 %(V)

Upper explosion limit : > 99 %(V)

Oxidizing properties : No

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Autoignition temperature : 305 °C (581 °F)

Molecular formula : C2H2

Molecular weight : 26.04 g/mol

pH : Not applicable

Pour point : No data available

Freezing point -80.6 °C (-113.1 °F)

Boiling point/boiling range : -84 °C (-119 °F)

Vapor pressure : 649.00 PSI

at 21 °C (70 °F)

Relative density : No data available

Density : 0.62 G/ML

Water solubility : Soluble in acetone, benzene, chloroform and many organic

solvents; slightly soluble in water and alcohol.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : 0.91

(Air = 1.0)

Evaporation rate : No data available

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

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and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

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

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon

Carbon oxides

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

SECTION 11: Toxicological information

Acetylene

Acute oral toxicity : Negligible or unlikely exposure pathways

Acute inhalation toxicity

Acetylene : LC50: > 160.5 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Dimethylformamide : > 5.85 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: vapor

Method: OECD Test Guideline 403

Ethylene LC50: > 65.4 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: gas

Propylene LC50: > 86 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: gas Test substance: yes

Acetylene

Acute dermal toxicity : Negligible or unlikely exposure pathways

Skin irritation

Acetylene : No skin irritation

Dimethylformamide No skin irritation

Ethane No skin irritation

Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Propylene No adverse effects expected.

Eye irritation

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Acetylene : No eye irritation

Dimethylformamide irritating

Ethane No eye irritation

Contact with liquid or refrigerated gas can cause cold burns

and frostbite.

Propylene No adverse effects expected.

Sensitization

Acetylene : No adverse effects expected.

Dimethylformamide Did not cause sensitization on laboratory animals.

Propylene No data available.

Repeated dose toxicity

Ethane : Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 1600, 5000, 16000 ppm

Exposure time: 6 weeks

Number of exposures: 6 hours/day, 7 days/week

NOEL: 16000 ppm Test substance: yes

Method: OECD Guideline 422

Propylene Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation

Dose: 625,1250,2500,5000, 10000 ppm

Exposure time: 14 wk

Number of exposures: 6 Hr/d, 5 d/wk

NOEL: 10000 ppm

No adverse effect has been observed in chronic toxicity tests.

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Species: Mouse, Male and female

Sex: Male and female Application Route: Inhalation

Dose: 625,1250,2500,5000, 10000 ppm

Exposure time: 14 wk

Number of exposures: 6 Hr/d, 5 d/wk

NOEL: 10000 ppm

No adverse effect has been observed in chronic toxicity tests.

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm Exposure time: 103 wk

Number of exposures: 6 Hr/d, 5 d/wk Lowest observable effect level: 5000 ppm

Species: Mouse, Male and female

Sex: Male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm Exposure time: 103 wk

Number of exposures: 6 Hr/d, 5 d/wk Lowest observable effect level: 5000 ppm

Carcinogenicity

Ethylene : Species: Rat

Dose: 0. 300, 1000, 3000 ppm

Exposure time: 2 yrs

Number of exposures: 6 h/d, 5 d/wk Remarks: no increase incidence of tumors

Propylene Species: Rat

Dose: 0, 5000, 10000 ppm Exposure time: 103 wks

Number of exposures: 6 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Species: Mouse

Dose: 0, 5000, 10000 ppm Exposure time: 103 wks

Number of exposures: 6 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Reproductive toxicity

Ethane : Species: Rat

Sex: male and female Application Route: Inhalation Dose: 0, 1600, 5000, 16000 ppm

Exposure time: 6 weeks

Number of exposures: 6 hours/day, 7 days/week

Test period: 6 weeks Test substance: yes

Method: OECD Guideline 422 NOAEL Parent: 16000 ppm NOAEL F1: 16000 ppm no abnormalities observed

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Ethylene Species: Rat

Application Route: Inhalation Dose: 0. 200, 1000, 5000 ppm Number of exposures: 6 h/d NOAEL Parent: 5000 ppm NOAEL F1: 5000 ppm no abnormalities observed

Propylene Species: Rat

Sex: male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm

Number of exposures: 6 hrs/d, 5 d/wk

Test period: 103 wks NOAEL Parent: 10000 ppm

Species: Mouse Sex: male and female Application Route: Inhalation Dose: 0, 5000, 10000 ppm

Number of exposures: 6 hrs/d, 5 d/wk

Test period: 103 wks NOAEL Parent: 10000 ppm

Developmental Toxicity

Ethylene : Species: Rat

Application Route: Inhalation
Dose: 0. 200, 1000, 5000 ppm
Number of exposures: 6 h/d
NOAEL Teratogenicity: 5000 ppm
NOAEL Maternal: 5000 ppm
No toxicity to reproduction

Animal testing did not show any effects on fertility.

Propylene Species: Rat

Application Route: Inhalation Dose: 0, 200, 1000, 10000 ppm Number of exposures: 6 hrs/d

Test period: 14 d

Method: OECD Guideline 414 NOAEL Teratogenicity: 10000 ppm NOAEL Maternal: 10000 pmm

Acetylene

Aspiration toxicity : No aspiration toxicity classification.

CMR effects

Propylene : Carcinogenicity: Animal testing did not show any carcinogenic

effects.

Mutagenicity: Tests on bacterial or mammalian cell cultures

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.

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Further information : No data available.

SECTION 12: Ecological information

Toxicity to fish

Dimethylformamide : LC50: 7,100 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other aquatic invertebrates

Dimethylformamide : EC50: 13,100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae

Dimethylformamide : EC50: > 1,000 mg/l

Exposure time: 96 h

Species: Desmodesmus subspicatus (Scenedesmus

subspicatus)

Elimination information (persistence and degradability)

Bioaccumulation

Ethane : This material is not expected to bioaccumulate.

This substance is not considered to be persistent.

: This material is not expected to be harmful to aquatic

bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and

very bioaccumulating (vPvB).

Biodegradability : This material is volatile and is expected to partition to air.

Ecotoxicology Assessment

Results of PBT assessment

Acetylene : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological

information organisms.

SECTION 13: Disposal considerations

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

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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)

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1001, ACETYLENE, DISSOLVED, 2.1, (-17.7 °C)

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

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

UN1001, ACETYLENE, DISSOLVED, 2.1, (B/D)

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

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

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

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

UN1001, ACETYLENE, DISSOLVED, 2.1

Acetylene dissolved is authorized for transport, but acetylene liquefied is forbidden for transport.

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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 : Fire Hazard

Sudden Release of Pressure Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable

Quantity

: 3333 lbs

Dimethylformamide

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Dimethylformamide - 68-12-2

Ethylene - 74-85-1 Propylene - 115-07-1

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

: Dimethylformamide - 68-12-2

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

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: Acetylene - 74-86-2 Ethane - 74-84-0 Ethylene - 74-85-1 Propylene - 115-07-1

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60):

: Acetylene - 74-86-2

Dimethylformamide - 68-12-2

Ethylene - 74-85-1 Propylene - 115-07-1

US State Regulations

Pennsylvania Right To Know

: Acetylene - 74-86-2

Dimethylformamide - 68-12-2

Ethane - 74-84-0 Ethylene - 74-85-1 Propylene - 115-07-1

New Jersey Right To Know

: Acetylene - 74-86-2

Dimethylformamide - 68-12-2

Ethane - 74-84-0 Ethylene - 74-85-1 Propylene - 115-07-1

California Prop. 65

Ingredients

: This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

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 TSCA : On 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 : On the inventory, or in compliance with the inventory 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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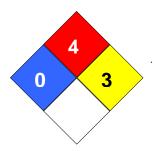
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SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 4 Reactivity Hazard: 3



Further information

Legacy SDS Number : 907

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
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	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
0110	Values	5054	
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

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	Substances in China		
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%		

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