

**Safety Data Sheet**

**Cellosolve Acetate 1073**

Version 1.0

Revision Date: 08/27/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Cellosolve Acetate 1073

Manufacturer or supplier's details

Company : TW Graphics  
Address 3323 S Malt Ave  
Commerce, CA 90040

Emergency telephone number: CHEMTREC 800.424.9300

GHS Classification  
Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity  
(Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Reproductive toxicity : Category 1B

GHS Label element  
Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled  
H360 May damage fertility or the unborn child.

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Precautionary statements

: Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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/ eye protection/ face protection.  
P281 Use personal protective equipment as required.  
Response:  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
Storage:  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
Disposal:  
P501 Dispose of contents/ container to an approved waste disposal plant.

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## Potential Health Effects

 Carcinogenicity:  
 IARC

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

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

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

**Emergency Overview**

Appearance	liquid
Colour	clear, colourless
Odour	mild, sweet, ether-like
Hazard Summary	No information available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous components**

CAS-No.	Chemical Name	Concentration (%)
111-15-9	Ethanol, 2-ethoxy-, 1-acetate	90 - 100
110-80-5	2-ethoxyethanol	0.1 - 1

**Synonyms** : 2-ethoxyethyl acetate,

**SECTION 4. FIRST AID MEASURES**

General advice

: Move out of dangerous area.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.

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If inhaled	: 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.
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. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Suitable extinguishing Media	: Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing Media	: High volume water jet
Specific hazards during Firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion Products	: Carbon oxides
Specific extinguishing Methods	: Use a water spray to cool fully closed containers.
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.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

NFPA Flammable and Combustible Liquids Classification:

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Combustible Liquid Class II

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Remove all sources of ignition. Evacuate personnel to safe areas. beware of vapours accumulating to form explosive concentrations. Vapours 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.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect noncombustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Avoid formation of aerosol. Do not breathe vapours/dust. 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. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage

: No smoking. Keep container tightly closed in a dry and 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.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
111-15-9	Ethanol, 2-ethoxy-, 1-acetate	TWA	5 ppm	ACGIH
		TWA	0.5 ppm 2.7 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 540 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm 540 mg/m <sup>3</sup>	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

 Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
 Remarks

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

Skin and body protection : impervious clothing choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : clear, colourless

Odour : mild, sweet, ether-like

Odour Threshold : 0.182 ppm

pH : No data available

Freezing Point (Freezing Point) : -61.7 °C (-79.1 °F)

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Boiling Point (Boiling Point/boiling range)	: 156.3 °C (313.3 °F)
Flash point	: 52 °C (126 °F)
Evaporation rate	: 0.2 n-Butyl Acetate
Flammability (solid, gas)	: No data available
Burning rate	: No data available
Upper explosion limit	: 14 %(V)
Lower explosion limit	: 1.7 %(V)
Vapour pressure	: 2 mmHg @ 20 °C (68 °F)
Relative vapour density	: 4.6
Relative density	: 0.973 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: No data available
Bulk density	: No data available
Solubility(ies) Water solubility	: No data available
Solubility in other solvents	: soluble Solvent: organic solvents
Partition coefficient: noctanol/ Water	: No data available
Auto-ignition temperature	: 379 °C
Thermal decomposition	: No data available
<b>SECTION 10. STABILITY AND REACTIVITY</b>	
Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous	: Vapours may form explosive mixture with air.

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reactions

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Avoid contact with: Strong acids Strong oxidizing agents strong alkalis

Hazardous decomposition Products : Carbon oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg  
Method: Calculation methodAcute inhalation toxicity : Acute toxicity estimate : 11.48 mg/l  
Exposure time: 4 h Test atmosphere: vapour Method:  
Calculation methodAcute dermal toxicity : Acute toxicity estimate : 1,098 mg/kg Method:  
Calculation method

Components:

111-15-9:

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg Method: Expert judgement Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (rat): 11.7 mg/l Exposure time: 4 h assessment:  
The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Acute toxicity estimate : 1,100 mg/kg Method: Expert judgement Assessment: The component/mixture is moderately toxic after single contact with skin.

110-80-5:

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg Method: Expert judgement Assessment: The component/mixture is moderately toxic after single ingestion.

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Acute dermal toxicity : LD50 (rabbit): 3,271 mg/kg

Skin corrosion/irritation

Components:

111-15-9:

Species: rabbit

Method: Draize Test

Result: No skin irritation

110-80-5:

Species: rabbit

Exposure time: 4 h

Result: No skin irritation

Serious eye damage/eye irritation

Components:

111-15-9:

Species: rabbit

Result: No eye irritation

110-80-5:

Species: rabbit

Result: No eye irritation

Method: Draize Test

Respiratory or skin sensitisation

Components:

111-15-9:

Remarks: No data available

110-80-5:

Test Type: Maximization test

Species: guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

**111-15-9:**

Genotoxicity in vitro

: Test Type: Ames test  
Test species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

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Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Test species: mouse  
Application Route: Intraperitoneal  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**110-80-5:**

Genotoxicity in vitro : Test species: Mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Result: negative without metabolic activation

Genotoxicity in vivo : Test Type: Chromosome aberration assay in vivo  
Test species: mouse  
Application Route: Intraperitoneal  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

**Components:**

111-15-9:

Remarks: This information is not available.

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

110-80-5: Species: rat  
Application Route: Oral  
Exposure time: 104 wks  
LOAEL: 900 mg/kg body weight

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**Reproductive toxicity**

**Components:**

111-15-9:

Effects on foetal development : Test Type: Embryo-foetal development  
Species: rabbit  
Application Route: Inhalation  
Duration of Single Treatment: 9 d

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Teratogenicity: LOAEL: 200 ppm

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

110-80-5: : Test Type: Fertility  
Effects on fertility : Species: rat  
Application Route: Oral  
Duration of Single Treatment: 4 Weeks  
Frequency of Treatment: 6 days/week  
General Toxicity - Parent: LOAEL: 200 mg/kg body weight

Effects on foetal development : Test Type: Embryo-foetal development  
Application Route: Inhalation  
Teratogenicity: LOAEL: 160 ppm  
Symptoms: Skeletal malformations.

Reproductive toxicity - Assessment : May damage fertility.  
Clear evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Product:  
No data available  
Components:  
No data available  
Components:  
No data available

**STOT - repeated exposure**

Product:  
No data available

Components:  
No data available  
Components:  
No data available

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## Repeated dose toxicity

## Components:

110-80-5: Species: rat

NOAEL: 100

Application Route: Oral

Exposure time: 13 wks

Number of exposures: 7 d/wk

Symptoms: Testicular effects

## Aspiration toxicity

## Components:

110-80-5: No aspiration

toxicity classification

## Further information

Product: Remarks: Solvents may  
decrease the skin.

## SECTION 12. ECOLOGICAL INFORMATION

## Ecotoxicity

## Components:

**111-15-9:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)):  
42.2 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic : EC50 (Daphnia magna (Water flea)): 354 mg/l  
invertebrates : Exposure time: 24 h

Toxicity to algae : EC10 (Green algae): 1,000 mg/l  
End point: Growth rate

Exposure time: 72 h  
Test Type: Growth inhibition

Ecotoxicology Assessment Acute : This product has no known ecotoxicological effects.  
aquatic toxicity

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Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
110-80-5: Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10,000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h Test Type: static test
Toxicity to algae	:	NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 1,000 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test
Ecotoxicology Assessment Acute Aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

**Persistence and degradability**

Components:

111-15-9: Biodegradability	:	aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 20 d
110-80-5: Biodegradability	:	aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Readily biodegradable. Biodegradation: 83 % Exposure time: 14 d

Bioaccumulative potential

Components:

111-15-9: Partition coefficient: n-octanol/water	:	log Pow: 0.24
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110-80-5: Partition coefficient: n-octanol/water : log Pow: -0.21

Mobility in soil  
No data available

Other adverse effects  
No data available

#### Product:

Regulation

40 CFR Protection of Environment; Part 82  
Protection of Stratospheric Ozone - CAA  
Section 602 Class I Substances

Remarks

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).

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

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

IATA (International Air Transport Association): UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, (ETHANOL, 2-ETHOXY-, 1-ACETATE), 3, III

**IMDG (International Maritime Dangerous Goods):** UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, (ETHANOL, 2-ETHOXY-, 1-ACETATE), 3, III, Flash Point:52 °C(126 °F)

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**DOT (Department of Transportation):** UN1172, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, (ETHANOL, 2-ETHOXY-, 1-ACETATE), 3, III

Special Notes: : The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gal-lon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

**SECTION 15. REGULATORY INFORMATION**

OSHA Hazards : Combustible Liquid, Teratogen, Reproductive hazard

**EPCRA - Emergency Planning and Community Right-to-Know Act**
**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-ethoxyethanol	110-80-5	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard  
Chronic Health Hazard  
Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (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).

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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):

111-15-9	Ethanol, 2-ethoxy-, 1-acetate	100 %
110-80-5	2-ethoxyethanol	0.4999 %

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**
**Massachusetts Right To Know**

111-15-9	Ethanol, 2-ethoxy-, 1-acetate	90 - 100 %
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**Pennsylvania Right To Know**

111-15-9	Ethanol, 2-ethoxy-, 1-acetate	90 - 100 %
110-80-5	2-ethoxyethanol	0.1 - 1 %

**New Jersey Right To Know**

111-15-9	Ethanol, 2-ethoxy-, 1-acetate	90 - 100 %
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**California Prop 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

111-15-9	Ethanol, 2-ethoxy-, 1-acetate
110-80-5	2-ethoxyethanol

**The components of this product are reported in the following inventories:**

1907/2006 (EU) : n (Negative listing) (Not in compliance with the inventory)

Switzerland. New notified substances : y (positive listing) (The formulation and declared preparations

	contains substances listed on the Swiss Inventory)
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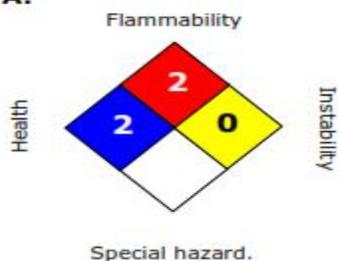
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United States TSCA Inventory	:	y (positive listing) (On TSCA Inventory)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ISHL - Inventory of Chemical Substances (METI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

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**SEXTUIB 16. OTHER INFORMATION**
**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) [MSDS@nexeosolutions.com](mailto:MSDS@nexeosolutions.com).

**Legacy MSDS:**

R0003731

## Material number:

16005861, 70059, 138479, 52717, 102796, 69368, 85742, 70570, 69957, 20403

## 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	NOEC	No Observed Effect

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EGEST	Concentration 50% EOSCA Generic Exposure	OSHA	Concentration Occupational Safety & Health Admin-
Scenario Tool EOSCA	European Oilfield Specialty Chemicals Association	OSHA 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 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 Sub- stances	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%	