

Version 3.2 Revision Date: 04/26/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Contact Cement Cleaner 238

Recommended use of the chemical and restrictions on use

Recommended use : Solvent.

Manufacturer or supplier's details

Company : FAMIS INC.

Address 5689 NW 35TH COURT

MIAMI, FLORIDA 33142 United States of America

Emergency telephone number:

Transport North America: CHEMTREC (1-800-424-9300)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Skin irritation : Category 2

Eye irritation : Category 2B

Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 2 (Central nervous system, Peripheral nervous sys-

tem)

Aspiration hazard : Category 1

GHS Label element





Hazard pictograms

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

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H304 May be fatal if swallowed and enters airways.

H315 + H320 Causes skin and eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child. H373

May cause damage to organs (Central nervous system,

Peripheral nervous system) through prolonged or repeated ex-

posure.

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/sparks/open flames/hot surfaces.

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.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician 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.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Weight %
68410-97-9 /	Distillates, pet, It dist hydrotreat process, low-boil	90 - 100
64742-49-0 /	AND/OR Naphtha (pet), hydrotreated It AND/OR	
64742-89-8	Solvent naphtha (pet), It aliph.	
142-82-5	**Heptane	15 - 30
110-82-7	**Cyclohexane	0.3 - 1.5

Any Concentration shown as a range is due to batch variation.

Special Notes: : ** Other substances in the product which may present a

health or environmental hazard.

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.

If unconscious place in recovery position and seek medical

advice.

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.

Do NOT induce vomiting.

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.

SECTION 5. FIREFIGHTING MEASURES

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Suitable extinguishing media

: Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical Water spray

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.

Do not allow vapor to accumulate in low or confined areas.

Flash back possible over considerable distance.

Hazardous combustion prod-

ucts

: Carbon oxides

A complex mixture of airborne solid and liquid particulates and

gases (smoke).

Unidentified organic and inorganic compounds.

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 sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec- : Use personal protective equipment.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-

tions. 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 with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-

miculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against : Do not spray on a naked flame or any incandescent material.

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fire and explosion Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurise, cut, weld, braze, solder, drill, or grind on containers. Vapours are heavi-

er than air and may spread along floors.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/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 ap-

plication area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

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.

Conditions for safe storage : Prevent unauthorized access.

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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, It dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated It AND/OR Solvent naphtha (pet), It aliph.	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
142-82-5	**Heptane	TWA	85 ppm 350 mg/m3	NIOSH REL
		С	440 ppm 1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm	OSHA P0

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			1,600 mg/m3	
		STEL	500 ppm 2,000 mg/m3	OSHA P0
		TWA	400 ppm	ACGIH
		STEL	500 ppm	ACGIH
110-82-7	**Cyclohexane	TWA	100 ppm	ACGIH
		TWA	300 ppm 1,050 mg/m3	NIOSH REL
		TWA	300 ppm 1,050 mg/m3	OSHA Z-1
		TWA	300 ppm 1,050 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In the case of vapour formation use a respirator with an ap-

proved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling the

product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : Clear, Colorless, Light

Odour : characteristic, Hydrocarbon-like, solvent-like

Odour Threshold : No data available

pH : No data available

Freezing Point : No data available

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Boiling Point (Boiling

point/boiling range)

: 90 - 116 °C (194 - 241 °F)

Flash point : -9 - 0 °C (16 - 32 °F)

Method: closed cup

Evaporation rate : 4.5

(Butyl Acetate = 1)

Flammability (solid, gas) : No data available

Upper explosion limit : 8 %(V)

Lower explosion limit : 0.8 %(V)

Vapour pressure : 45 mmHg

Relative vapour density : 3.3(Air = 1.0)

Relative density : 0.696 - 0.728 @ 20 - 25 °C (68 - 77 °F)

Reference substance: (water = 1)

0.73 - 0.74 @ 15.6 °C (60.1 °F) Reference substance: (water = 1)

Density : 0.6954 g/cm3 @ 20 - 25 °C (68 - 77 °F)

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents

Partition coefficient: n-

octanol/water

No data availableNo data available

Auto-ignition temperature : 241 - 320 °C

Thermal decomposition : No data available

Viscosity

Viscosity, kinematic : < 10 mm2/s @ 40 °C (104 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: No hazards to be specially mentioned.

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Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Avoid electro-static discharge

elevated pressure

Incompatible materials

Hazardous decomposition

products

: Oxidizing agents

A complex mixture of airborne solid and liquid particulates and

gases (smoke). Carbon oxides Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Assessment: The substance or mixture has no acute oral tox-

icity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Product:

Result: Irritating to skin.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Species: Rabbit Exposure time: 4 h Result: Irritating to skin.

Serious eye damage/eye irritation

Product:

Result: Irritation to eyes, reversing within 7 days

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Species: Rabbit

Result: Irritating to eyes.

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Respiratory or skin sensitisation

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Test Type: Buehler Test Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Germ cell mutagenicity -

: Mutagenicity classification not possible from current data

Assessment

Carcinogenicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Carcinogenicity - Assess-

: Carcinogenicity classification not possible from current data.

ment

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.

No component of this product present at levels greater than or **OSHA**

equal to 0.1% is identified as a carcinogen or potential carcino-

gen 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.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by ACGIH.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, based on animal experiments.

Teratogenicity - Assessment : Some evidence of adverse effects on development, based on

animal experiments.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Reproductive toxicity - As-Fertility classification not possible from current data.

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sessment

Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

STOT - single exposure

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as

specific target organ toxicant, single exposure, category 3 with narcotic effects.

STOT - repeated exposure

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Target Organs: Central nervous system, Peripheral nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

Aspiration toxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause narcotic effects.

Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 4.5 mg/l

Exposure time: 48 h Test Type: Immobilization

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3.7

Exposure time: 96 h
Test Type: static test

Acute aquatic toxicity- As-

sessment

: Toxic to aquatic life.

Chronic aquatic toxicity- As-

sessment

: Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Biodegradability : Result: Readily biodegradable

Biodegradation: 77 % Testing period: 2 d Exposure time: 28 d

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection 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 infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Components:

68410-97-9 / 64742-49-0 / 64742-89-8:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

ion unprofessional handling or disposal.

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Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDER ATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and

federal regulations.

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

DOT (Department of Transportation):

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

IATA (International Air Transport Association):

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

IMDG (International Maritime Dangerous Goods):

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, Marine Pollutant (MIXTURE OF PETROLEUM DISTILLATES), Flash Point:-9 - 0 °C(16 - 32 °F)

SECTION 15. REGULATORY INFORMATION

WHMIS Classification : B2: Flammable liquid

D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
**Cyclohexane	110-82-7	1000	*
**Toluene	108-88-3	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

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> Immediate (Acute) Health Hazard Chronic (Delayed) Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

**Cyclohexane 110-82-7

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).

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

110-82-7 **Cyclohexane

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

110-82-7 **Cyclohexane 108-88-3 **Toluene 71-43-2 **Benzene **Ethylbenzene 100-41-4

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

**Cyclohexane 110-82-7 **Toluene 108-88-3 **Benzene 71-43-2 **Ethylbenzene 100-41-4

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

142-82-5	**Heptane	15 - 30 %
110-82-7	**Cyclohexane	0.3 - 1.5 %
71-43-2	**Benzene	0 - 0.1 %

Pennsylvania Right To Know

68410-97-9 / 64742-49-0 / 64742-89-8	Distillates, pet, It dist hydrotreat process, low-boil AND/OR Naphtha (pet), hydrotreated It AND/OR Solvent naphtha	90 - 100 %
	(pet), lt aliph.	
142-82-5	**Heptane	15 - 30 %
110-82-7	**Cyclohexane	0.3 - 1.5 %
108-88-3	**Toluene	0 - 0.1 %

New Jersey Right To Know

9		
68410-97-9 /	Distillates, pet, It dist hydrotreat process,	90 - 100 %
64742-49-0 /	low-boil AND/OR Naphtha (pet), hy-	
64742-89-8	drotreated It AND/OR Solvent naphtha	
	(pet), It aliph.	

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142-82-5 **Heptane 15 - 30 % 110-82-7 **Cyclohexane 0.3 - 1.5 %

California Prop 65 WARNING! This product contains a chemical known to the

State of California to cause cancer.

71-43-2 **Benzene 100-41-4 **Ethylbenzene

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

harm.

108-88-3 **Toluene 71-43-2 **Benzene

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

TSCA : On TSCA Inventory

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

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

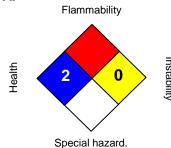
KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

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

SECTION16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0

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

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of need that the information is current, applicable, and suitable to their circumstances.

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Legacy SDS: : R0000586

Material number:

16059603, 16056306, 16056307, 16026703, 702091, 680259, 603357, 603358, 603354, 603352, 603351, 594556, 69604, 53207, 54501, 86311, 103119, 54496, 143108, 503029, 39829, 20071, 20070, 53754

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 Sub- stances 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 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%	

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