

**TERMIX® 5819**

Version 1.0      Revision Date: 10/08/2015      SDS Number: 400001004697      Date of last issue: -  
Date of first issue: 10/08/2015

**SECTION 1. IDENTIFICATION**

Product name : TERMIX® 5819

**Manufacturer or supplier's details**

Company name of supplier : Huntsman International LLC  
Address : P.O. Box 4980  
The Woodlands,  
TX 77387  
United States of America

Telephone : TechInfo: (281) 719-7780

E-mail address of person responsible for the SDS : MSDS@huntsman.com

Emergency telephone : Chemtrec: (800) 424-9300 or (703) 527-3887

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2

Serious eye damage : Category 1

Acute aquatic toxicity : Category 2

**GHS Label element**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H401 Toxic to aquatic life.

Precautionary Statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.  
P332 + P313 If skin irritation occurs: Get medical advice/

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attention.  
P362 Take off contaminated clothing and wash before reuse.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Alcohols, C12-16, ethoxylated	68551-12-2	30 - 60
Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts	90194-26-6	13 - 30
1-Hexanol, 2-ethyl-	104-76-7	7 - 13

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- 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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
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.

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Most important symptoms and effects, both acute and delayed : None known.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : No data is available on the product itself.

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.

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

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
In case of inadequate ventilation wear respiratory protection.

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.

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For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : 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.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Hazardous components without workplace control parameters**

Ingredients	CAS-No.
Alcohols, C12-16, ethoxylated	68551-12-2
Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts	90194-26-6
1-Hexanol, 2-ethyl-	104-76-7

**Personal protective equipment**

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

Remarks

: Impervious gloves  
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.

Eye protection

: Eye wash bottle with pure water  
Tightly fitting safety goggles.  
Wear face-shield and protective suit for abnormal processing problems.  
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection

: impervious clothing

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Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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**

Appearance	: liquid
Color	: amber, clear
Odor	: characteristic
Odor Threshold	: No data is available on the product itself.
pH	: 4.4, Concentration: 10 g/l
Flash point	: 96.1 °C Method: Pensky-Martens closed cup, closed cup
Evaporation rate	: No data is available on the product itself.
Flammability (solid, gas)	: No data is available on the product itself.
Upper explosion limit	: No data is available on the product itself.
Lower explosion limit	: No data is available on the product itself.
Vapor pressure	: No data is available on the product itself.
Relative vapor density	: No data is available on the product itself.
Relative density	: No data is available on the product itself.
Density	: 1 g/cm <sup>3</sup> (25 °C)
Solubility(ies)	
Water solubility	: No data is available on the product itself.
Solubility in other solvents	: No data is available on the product itself.
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Autoignition temperature	: No data is available on the product itself.
Thermal decomposition	: No data is available on the product itself.
Viscosity	
Viscosity, kinematic	: 32.4 mm <sup>2</sup> /s (40 °C)
Self-Accelerating decomposition temperature	: No data is available on the product itself.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available
Hazardous decomposition products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Sulfur oxides Metal oxides

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity**

Acute oral toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity - Product : Acute toxicity estimate: > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

**Ingredients:**

Alcohols, C12-16, ethoxylated:

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

1-Hexanol, 2-ethyl-:

Acute dermal toxicity : LD50 (Rat, male and female): > 3,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Product:**

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Remarks: Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation****Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitization****Ingredients:**

Alcohols, C12-16, ethoxylated:

Routes of exposure: Skin

Species: Humans

Result: Does not cause skin sensitization.

Routes of exposure: Skin

Species: Guinea pig

Method: Directive 67/548/EEC, Annex V, B.6.

Result: Does not cause skin sensitization.

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Routes of exposure: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitization.

1-Hexanol, 2-ethyl-:

Routes of exposure: Skin

Species: Humans

Result: Does not cause skin sensitization.

Assessment: No data available

**Germ cell mutagenicity****Ingredients:**

Alcohols, C12-16, ethoxylated:

Genotoxicity in vitro : Concentration: 5 - 50 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Concentration: .5 - 100 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Concentration: .0001 - .1 µg/L  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 482  
Result: negative  
GLP: yes

Concentration: 2000 ug/plate

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Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: no

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Genotoxicity in vitro : Concentration: 8 - 5000 ug/plate  
 Metabolic activation: with and without metabolic activation  
 Method: Directive 67/548/EEC, Annex V, B.13/14.  
 Result: negative

Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative

1-Hexanol, 2-ethyl-:  
 Genotoxicity in vitro

: Concentration: .018 - .24 µg/L  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
 GLP: no

Concentration: 1 - 1000 ug/plate  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

Concentration: 50 - 500 µg/L  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative  
 GLP: yes

**Ingredients:**

Alcohols, C12-16, ethoxylated:

Genotoxicity in vivo : Application Route: Intraperitoneal injection  
 Dose: 100 mg/kg  
 Method: OECD Test Guideline 474  
 Result: negative  
 GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Genotoxicity in vivo : Application Route: Oral  
 Exposure time: 72 h  
 Dose: 1122 mg/kg  
 Method: OECD Test Guideline 474  
 Result: negative

**Carcinogenicity****Ingredients:**

Alcohols, C12-16, ethoxylated:  
 Species: Rat, (male and female)  
 Application Route: Oral  
 Exposure time: 24 month(s)



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Dose: 500 mg/kg  
Result: negative

Result: negative

1-Hexanol, 2-ethyl-:  
Species: Rat, (male and female)  
Application Route: Oral  
Exposure time: 24 month(s)  
Dose: 500 mg/kg  
Frequency of Treatment: 5 daily  
Method: OECD Test Guideline 453  
Result: negative  
Target Organs: Gastro-intestinal system

Target Organs: Brain

Target Organs: Liver

Target Organs: Kidney

Target Organs: Testes

Carcinogenicity - Assessment : No data available

**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.

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

**Reproductive toxicity****Ingredients:**

Alcohols, C12-16, ethoxylated:  
Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Target Organs: Liver  
GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
Species: Rat, male and female  
Application Route: Oral

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
Effects on fetal development : Species: Rat, male and female  
Application Route: Dermal

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Result: No teratogenic effects.

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 300 mg/kg body weight  
Result: No teratogenic effects.

Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 2 mg/kg body weight  
Result: No teratogenic effects.

1-Hexanol, 2-ethyl-:

Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL (No observed adverse effect level): 130 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Reproductive toxicity - Assessment : No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Repeated dose toxicity****Ingredients:**

Alcohols, C12-16, ethoxylated:  
Species: Rat, male and female  
NOAEL (No observed adverse effect level): 110 mg/kg/d  
Application Route: Ingestion  
Exposure time: 2,160 h  
Method: Subchronic toxicity

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Species: Rat, male and female  
NOAEL (No observed adverse effect level): 125 mg/kg/d  
Application Route: Ingestion  
Exposure time: 672 h  
Number of exposures: 7 d  
Method: Subacute toxicity

Species: Rat, male and female  
NOAEL (No observed adverse effect level): 85 mg/kg/d  
Application Route: Ingestion

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Exposure time: 6,480 h  
Number of exposures: 7 d  
Method: Subchronic toxicity

1-Hexanol, 2-ethyl-:  
Species: Rat, male and female  
Test atmosphere: vapor  
Exposure time: 2,160 h  
Number of exposures: 5 d  
Method: OECD Test Guideline 413  
Remarks: see user defined free text

Species: Rat  
No-observed-effect level: 125 mg/kg  
Application Route: Ingestion  
Exposure time: 13 Weeks  
Number of exposures: 5 d  
Method: Subchronic toxicity

Repeated dose toxicity - : No data available  
Assessment

**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:**

Alcohols, C12-16, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Toxicity to fish : LC50: > 1 - < 10 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

1-Hexanol, 2-ethyl-:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17.1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.1.  
GLP: yes

**Ingredients:**

Alcohols, C12-16, ethoxylated:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.7 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

1-Hexanol, 2-ethyl-:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: Fresh water  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: yes

**Ingredients:**

Alcohols, C12-16, ethoxylated:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 0.87 mg/l

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Exposure time: 72 h  
 Test Type: static test  
 Test substance: Fresh water  
 GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
 Toxicity to algae : EC50 (Selastrum capricornutum (green algae)): 29 mg/l  
 Exposure time: 96 h  
 Test Type: static test

1-Hexanol, 2-ethyl-:  
 Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 11.5 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: Directive 67/548/EEC, Annex V, C.3.  
 GLP: yes

IC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 11.5 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: Directive 67/548/EEC, Annex V, C.3.  
 GLP: yes

IC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 11.5 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: Directive 67/548/EEC, Annex V, C.3.  
 GLP: yes

M-Factor (Acute aquatic toxicity) : No data available

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
 Toxicity to fish (Chronic toxicity) : EC20 (Pimephales promelas (fathead minnow)): 0.91 mg/l  
 Exposure time: 30 d  
 Test substance: Fresh water

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
 Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l  
 Exposure time: 72 d  
 Test Type: flow-through test

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
 Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC20 (Daphnia magna (Water flea)): 0.48 mg/l  
 Exposure time: 21 d  
 Test substance: Fresh water

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Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.18 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Test substance: Fresh water

M-Factor (Chronic aquatic toxicity) : No data available

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
Toxicity to bacteria : EC50 (activated sludge): 1,000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Test substance: Fresh water  
GLP:

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
Toxicity to bacteria : EC50 (activated sludge): 550 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
Toxicity to soil dwelling organisms : NOEC (Eisenia fetida (earthworms)): 220 mg/kg  
Test substance: Natural  
Method: OECD Test Guideline 222

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
Plant toxicity : NOEC:  $\geq$  100 mg/kg  
Exposure time: 456 h  
Test substance: Natural  
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test  
GLP: yes

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:  
Plant toxicity : EC50: 142 mg/kg  
Exposure time: 336 h  
Test substance: Synthetic  
Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test

Sediment toxicity : No data available

**Ingredients:**

Alcohols, C12-16, ethoxylated:  
Toxicity to terrestrial organisms : EC50: 270 mg/kg  
Exposure time: 144 h  
Test substance: Natural

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Ecotoxicology Assessment  
 Acute aquatic toxicity - Product : Toxic to aquatic life.  
 Chronic aquatic toxicity - Product : This product has no known ecotoxicological effects.  
 Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:  
 No data available

**Persistence and degradability****Ingredients:**

Alcohols, C12-16, ethoxylated:

Biodegradability : Inoculum: activated sludge  
 Result: Readily biodegradable.  
 Biodegradation: 78 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Biodegradability : Inoculum: activated sludge  
 Result: Readily biodegradable.  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

Inoculum: Soil  
 Concentration: .2 - 20  
 Result: Readily biodegradable.  
 Biodegradation: 70 - 99 %  
 Exposure time: 122 d

1-Hexanol, 2-ethyl-:

Biodegradability : Concentration: 100 mg/l  
 Result: Readily biodegradable.  
 Biodegradation: 79 - 99 %  
 Exposure time: 14 d  
 Method: OECD Test Guideline 301C

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon : No data available

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Physico-chemical  
removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage  
Treatment : No data available

**Bioaccumulative potential****Ingredients:**

Alcohols, C12-16, ethoxylated:

Bioaccumulation : Bioconcentration factor (BCF): < 800  
Test substance: Fresh water  
Remarks: Does not bioaccumulate.

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)  
Bioconcentration factor (BCF): 2 - 1,000  
Exposure time: 8 d  
Test substance: Fresh water  
Method: flow-through test  
Remarks: Bioaccumulation is unlikely.

1-Hexanol, 2-ethyl-:

Bioaccumulation : Bioconcentration factor (BCF): 25.33  
GLP: no  
Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 25.33  
GLP: no  
Remarks: Bioaccumulation is unlikely.

**Ingredients:**

Alcohols, C12-16, ethoxylated:

Partition coefficient: n-  
octanol/water : log Pow: 5.24 - 5.44 (25 °C)

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Partition coefficient: n-  
octanol/water : log Pow: 2.89 (20 °C)  
Method: Partition coefficient

1-Hexanol, 2-ethyl-:

Partition coefficient: n-  
octanol/water : log Pow: 2.9 (25 °C)  
pH: 7  
Method: OECD Test Guideline 117  
GLP: no

**Mobility in soil**

Mobility : No data available



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**Ingredients:**

Alcohols, C12-16, ethoxylated:

Distribution among environmental compartments : Koc: 19612.02 - 24351.32.

Benzenesulphonic acid, 4-C10-14-alkyl derivs., calcium salts:

Distribution among environmental compartments : Method: OECD Test Guideline 121  
Remarks: see user defined free text

1-Hexanol, 2-ethyl-:

Distribution among environmental compartments : Koc: 26.01.

Stability in soil : No data available

**Other adverse effects**

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

**Hazardous to the ozone layer**Ozone-Depletion Potential : 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 - Product : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life.  
Toxic to aquatic life.

Global warming potential (GWP) : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION****International Regulation****IATA**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (ALCOHOL C-12-C-16 POLY (1-6) ETHOXYLATE)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964

**IMDG**

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 (ALCOHOL C-12-C-16 POLY (1-6) ETHOXYLATE)  
 Class : 9  
 Packing group : III  
 Labels : 9  
 EmS Code : F-A, S-F  
 Marine pollutant : yes

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

Not applicable for product as supplied.

**Domestic regulation****DOT Classification**

UN/ID/NA number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 (ALCOHOL C-12-C-16 POLY (1-6) ETHOXYLATE)  
 Class : 9  
 Packing group : III  
 Labels : CLASS 9  
 ERG Code : 171  
 Marine pollutant : yes

**SECTION 15. REGULATORY INFORMATION**

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**TSCA - 5(a) Significant New Use Rule List of Chemicals** : Not relevant

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

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ETHYLENE OXIDE (EO)	75-21-8	10	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : No SARA Hazards

**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 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 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**California Prop 65**

WARNING! This product contains a chemical known in the State of California to cause cancer.

ethylene oxide 75-21-8

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

ethylene oxide 75-21-8

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

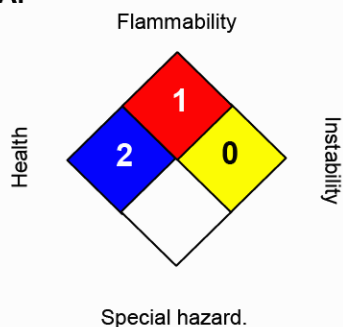
TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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