

# SAFETY DATA SHEET



## MARLOPON AT 50

Version 1.0      Revision Date: 01/03/2024      SDS Number: 400000002343      Date of last issue: -  
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### SECTION 1. IDENTIFICATION

Product name : MARLOPON AT 50  
Other means of identification : TEA-Dodecylbenzenesulfonate

#### Manufacturer or supplier's details

Company name of supplier : Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)

Address : 12120 Wickchester Lane  
Houston, TX 77079  
United States of America (USA)

Telephone : +1 (281) 588-3491

Emergency telephone number : (800) 424-9300      CHEMTREC North America Transportation Emergency (24-hr)  
(703) 527-3887      CHEMTREC World Wide  
(337) 494-5142      Other Emergencies (24-hr)

Information (Product safety) : (281) 588 3491      SDS and Product Information (8:00am-4:30pm CST)  
(281) 588 3492      Health and Safety Information (7:30am-4:00pm CST)

SasolElectronicSDS@us.sasol.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Industrial use  
Detergent  
Hard-surface cleaner  
Industrial and institutional cleaning

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Category 1C

Serious eye damage : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

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Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H401 Toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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/ doctor.  
P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 57 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 4 %

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature :

| Chemical name | CAS-No. | Concentration (% w/w) |
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| Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine | 68411-31-4 | >= 50 - < 70 |
| Water  | 7732-18-5  | >= 30 - < 50 |
| Ethanol, 2,2',2''-nitritoltris-, sulfate (1:?)                           | 7376-31-0  | >= 1 - < 5   |
| Ethanol, 2,2',2''-nitritoltris-  | 102-71-6   | >= 1 - < 5   |

### Hazardous components

| Chemical name  | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine | 68411-31-4 | >= 50 - < 70          |

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- General advice : If you feel unwell, seek medical advice (show the label where possible).  
Take off all contaminated clothing immediately.
- If inhaled : Remove from exposure, lie down.  
If breathing is irregular or stopped, administer artificial respiration.  
Monitor breathing, give oxygen if necessary.  
Consult a physician.
- In case of skin contact : Wash off immediately with plenty of water.  
Consult a physician.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : Consult a physician.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Causes serious eye damage.  
Causes severe burns.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Dry powder  
Foam  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Dangerous gases or fumes may occur in case of fire.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency measures : Use personal protective equipment.  
Forms slippery/greasy layers with water.

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gency procedures

Environmental precautions : Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special protective measures against fire required.

Advice on safe handling : Wear personal protective equipment.  
Conditions for safe storage : No special storage conditions required.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Coordinate hand protection with other chemicals used. Preventive hand protection is recommended. Impervious gloves

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

Protective measures : Avoid contact with eyes.  
Wear suitable gloves and eye/face protection.

Hygiene measures : Avoid contact with eyes.  
Handle in accordance with good industrial hygiene and safety practice.  
Keep away from food, drink and animal feedingstuffs.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : yellowish-brownish, transparent

Odour : mild

Odour Threshold : No valid method available.

pH : 6 - 7.5 (68 °F / 20 °C)  
Concentration: 20 g/l  
Method: DIN EN 1262

Melting point/range : 27 °F / -3 °C  
(1,013 hPa)

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Boiling point/boiling range : > 428 °F / > 220 °C  
Decomposition: Decomposes below the boiling point.

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 0.1 hPa (68 °F / 20 °C)

Relative vapour density : > 1

Density : ca. 1.07 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)  
Water solubility : completely miscible

Partition coefficient: n-octanol/water : not applicable (mixture)

Auto-ignition temperature : Not applicable

Viscosity  
Viscosity, dynamic : ca. 2,500 mPas (77 °F / 25 °C)

Explosive properties : not expected based on structure and functional groups

Oxidizing properties : not expected based on structure and functional groups

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

Incompatible materials : Strong acids and oxidizing agents

Hazardous decomposition products : No decomposition if stored normally.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

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Acute oral toxicity : Acute toxicity estimate: 4,717 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 4,717 mg/kg  
Method: Calculation method

### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Acute oral toxicity : LD50 (Rat): > 2,000 - 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute inhalation toxicity : Assessment: No data available

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature.

### Components:

#### **Water:**

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### **Ethanol, 2,2',2''-nitrilotris-, sulfate (1:?):**

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

#### **Ethanol, 2,2',2''-nitrilotris-:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: Based on available data, the classification criteria are not met.  
Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : Remarks: Study/Test not required  
Justification:  
Data are available from alternate exposure routes.  
The value is higher than maximum vapor concentrations obtainable under study conditions

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: Erythema

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Assessment: Based on available data, the classification criteria are not met.

Remarks: Information taken from reference works and the literature.

### **Skin corrosion/irritation**

Causes severe burns.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive after 1 to 4 hours of exposure  
GLP : no

### **Components:**

#### **Water:**

Remarks : No data available

#### **Ethanol, 2,2',2''-nitrioltris-:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
Remarks : Information taken from reference works and the literature.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405  
GLP : no

### **Components:**

#### **Water:**

Remarks : No data available

#### **Ethanol, 2,2',2''-nitrioltris-:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

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Remarks : Information taken from reference works and the literature.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

Test Type : Respiratory sensitisation  
Remarks : No data available

### **Components:**

#### **Water:**

Remarks : No data available

#### **Ethanol, 2,2',2''-nitrotris-:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Based on available data, the classification criteria are not met.  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
Remarks : Information taken from reference works and the literature.

Test Type : Respiratory sensitisation  
Remarks : No data available

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
Information taken from reference works and the literature.

Genotoxicity in vivo : Remarks: No data available



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### Components:

#### **Water:**

Genotoxicity in vivo : Remarks: No data available

#### **Ethanol, 2,2',2''-nitrioltris-:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
Information taken from reference works and the literature.

Genotoxicity in vivo : Remarks: The study is not necessary.  
Justification:  
In vitro tests did not show mutagenic effects

#### **Carcinogenicity**

Not classified based on available information.

### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Remarks : This information is not available.

### Components:

#### **Water:**

Remarks : This information is not available.

#### **Ethanol, 2,2',2''-nitrioltris-:**

Species : Rat, male and female  
Application Route : dermal  
Exposure time : 2 years  
Frequency of Treatment : 5 days/week  
Method : OECD Test Guideline 451  
Remarks : In this study no cancerogenic effects were observed.  
Information taken from reference works and the literature.

**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.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**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.

#### **Reproductive toxicity**

Not classified based on available information.

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### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

- Effects on fertility : Result: No toxicity to reproduction  
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature.
- Effects on foetal development : Result: Animal testing did not show any effects on foetal development.  
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature.

### Components:

#### **Water:**

- Effects on fertility : Remarks: This information is not available.
- Effects on foetal development : Remarks: This information is not available.

#### **Ethanol, 2,2',2''-nitritoltris-:**

- Effects on fertility : Result: Animal testing did not show any effects on fertility.  
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature. The value is given in analogy to the following substances: 2-aminoethanol
- Effects on foetal development : Result: Animal testing did not show any effects on foetal development.  
Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature. The value is given in analogy to the following substances: 2-aminoethanol

#### **STOT - single exposure**

Not classified based on available information.

### Components:

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

- Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Components:

#### **Water:**

- Remarks : This information is not available.

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### **Ethanol, 2,2',2''-nitritoltris-:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

Not classified based on available information.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Components:**

#### **Water:**

Remarks : This information is not available.

### **Ethanol, 2,2',2''-nitritoltris-:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Species : Rat  
NOAEL : 116.5 mg/kg  
Application Route : Oral  
Exposure time : 9 months  
Remarks : The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Information taken from reference works and the literature.

### **Components:**

#### **Water:**

Remarks : This information is not available.

### **Ethanol, 2,2',2''-nitritoltris-, sulfate (1?:)**

Remarks : This information is not available.

### **Ethanol, 2,2',2''-nitritoltris-:**

Species : Rat, male and female  
NOAEL : 1,000 mg/kg  
Application Route : oral feed

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Exposure time : Subchronic toxicity  
Method : OECD Test Guideline 408  
Remarks : Information taken from reference works and the literature.

Species : Rat, male and female  
NOAEC : 0.5 mg/l  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Exposure time : Subacute toxicity  
Method : OECD Test Guideline 412  
Remarks : Information taken from reference works and the literature.

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Dermal  
Exposure time : Subchronic toxicity  
Method : OECD Test Guideline 411  
Target Organs : Kidney  
Remarks : Information taken from reference works and the literature.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Not applicable

### **Components:**

#### **Water:**

Not applicable

#### **Ethanol, 2,2',2''-nitrioltris-:**

Not applicable

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

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**Components:****Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: US EPA 1975  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
  
NOEC (Desmodesmus subspicatus (green algae)): > 1 - 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
GLP: yes  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l  
End point: reproduction rate  
Exposure time: 196 d  
Test Type: model ecosystem  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC20 (Corbicula): > 0.1 - 1 mg/l  
End point: Growth rate  
Exposure time: 32 d  
Test Type: model ecosystem  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to microorganisms : EC10 (Pseudomonas putida): 50 mg/l  
Exposure time: 18 h  
Test Type: Growth inhibition  
Method: Bringmann & Kühn  
GLP: yes

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Toxicity to soil dwelling organisms : EC10 (Aporroectodea caliginosa): 71.7 mg/kg  
Exposure time: 28 d  
End point: Growth  
Remarks: Category approach  
Information taken from reference works and the literature.

EC10 (Folsomia sp.): 107.6 mg/kg  
End point: reproduction rate  
Remarks: Category approach  
Information taken from reference works and the literature.

Plant toxicity : NOEC: 100 mg/kg  
Exposure time: 21 d  
End point: Growth  
Species: Sorghum bicolor (sorghum)  
Method: OECD Test Guideline 208  
Remarks: Category approach  
Information taken from reference works and the literature.

EC10: 86 mg/kg  
Exposure time: 14 d  
End point: Growth  
Species: Brassica rapa  
Method: OECD Test Guideline 208  
Remarks: Category approach  
Information taken from reference works and the literature.

NOEC: 52 mg/kg  
Exposure time: 14 d  
End point: Growth  
Species: Nigella arvensis  
Method: OECD Test Guideline 208  
Remarks: Category approach  
Information taken from reference works and the literature.

Toxicity to terrestrial organisms : Remarks: The study is not necessary., Justification:, Readily biodegradable.

### **Components:**

#### **Water:**

M-Factor (Acute aquatic toxicity) : no M factor for Acute Toxicity available

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

M-Factor (Chronic aquatic toxicity) :  
no M factor for Chronic Toxicity available

#### **Ethanol, 2,2',2''-nitrilotris-, sulfate (1:?):**

M-Factor (Acute aquatic toxicity) :

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icity)      no M factor for Acute Toxicity available

Toxicity to fish (Chronic toxicity) : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No data available

M-Factor (Chronic aquatic toxicity) :

no M factor for Chronic Toxicity available

### **Ethanol, 2,2',2''-nitriлотris-**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Remarks: Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia sp.): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Remarks: Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Remarks: Information taken from reference works and the literature.

Toxicity to fish (Chronic toxicity) : Remarks: study scientifically unjustified

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 16 mg/l  
End point: mortality  
Exposure time: 21 d  
Test Type: semi-static test  
Remarks: Information taken from reference works and the literature.

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage): > 1,000 mg/l  
Exposure time: 180 min  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
Remarks: Information taken from reference works and the literature.

Toxicity to soil dwelling organisms : Remarks: The study is not necessary.  
Justification:  
Readily biodegradable.  
Direct exposure to soil is unlikely.

Plant toxicity : Remarks: The study is not necessary.  
Justification:  
Readily biodegradable.

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Direct exposure to soil is unlikely.

Toxicity to terrestrial organisms : Remarks: The study is not necessary., Justification:., Studies on birds do not need to be conducted due to large mammalian dataset., Direct exposure to soil is unlikely., Readily biodegradable.

**Persistence and degradability****Components:****Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Biodegradability : aerobic  
 Inoculum: activated sludge of a predominantly domestic sewage  
 Result: Readily biodegradable.  
 Biodegradation: > 60 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B  
 GLP: yes

**Components:****Water:**

Biodegradability : Remarks: No data available

**Ethanol, 2,2',2''-nitritoltris-:**

Biodegradability : aerobic  
 Inoculum: activated sludge  
 Result: Readily biodegradable.  
 Biodegradation: > 60 %  
 Exposure time: 5 d  
 Method: CO2 Evolution Test  
 Remarks: Information taken from reference works and the literature.

**Bioaccumulative potential****Components:****Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

**Components:****Water:**

Bioaccumulation : Remarks: No data available

**Ethanol, 2,2',2''-nitritoltris-, sulfate (1:?):**



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Bioaccumulation : Remarks: No data available

### **Ethanol, 2,2',2''-nitriлотris-:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 3.9  
Exposure time: 42 d  
Concentration: 0.25 mg/l  
Elimination: yes  
Method: OECD Test Guideline 305C  
Remarks: Bioaccumulation is unlikely.  
Information taken from reference works and the literature.

### **Mobility in soil**

#### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

Distribution among environmental compartments : Remarks: No data available

#### **Components:**

#### **Water:**

Distribution among environmental compartments : Remarks: No data available

#### **Ethanol, 2,2',2''-nitriлотris-, sulfate (1:?):**

Distribution among environmental compartments : Remarks: No data available

#### **Ethanol, 2,2',2''-nitriлотris-:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: Soil  
Koc: 10, log Koc: 1  
Method: calculated  
Remarks: Highly mobile in soils  
Information taken from reference works and the literature.

### **Other adverse effects**

#### **Product:**

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).

#### **Components:**

#### **Benzenesulfonic acid, C10-13-alkyl derivs., compds. with triethanolamine:**

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Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Additional ecological information : Harmful to aquatic life with long lasting effects.

### **Components:**

#### **Water:**

Results of PBT and vPvB assessment : Remarks: No data available  
Additional ecological information : No data available

#### **Ethanol, 2,2',2''-nitrioltris-:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).  
Additional ecological information : None known.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Can be incinerated, when in compliance with local regulations.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 1760  
Proper shipping name : Corrosive liquid, n.o.s.  
(Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds.  
with triethanolamine)  
Class : 8  
Packing group : III  
Labels : Corrosive  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852

#### **IMDG-Code**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds.  
with triethanolamine)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

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

No information available.

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### National Regulations

#### 49 CFR

UN/ID/NA number            : UN 1760  
Proper shipping name        : Corrosive liquids, n.o.s.  
Class                         : 8  
Packing group               : III  
Labels                        : CORROSIVE  
ERG Code                     : 154  
Marine pollutant             : no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards**            : Serious eye damage or eye irritation  
Skin corrosion or irritation

**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 112 (40 CFR 61).

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

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

### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water 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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

|   |            |
|---|------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., compds. with tri-ethanolamine | 68411-31-4 |
| Water   | 7732-18-5  |
| Ethanol, 2,2',2''-nitrioltris-, sulfate (1:?)                             | 7376-31-0  |

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

|        |  |
|--------|--|
| AICC   | : On the inventory, or in compliance with the inventory  |
| DSL    | : All components of this product are on the Canadian DSL |
| CH INV | : On the inventory, or in compliance with the inventory  |
| ENCS   | : On the inventory, or in compliance with the inventory  |
| ISHL   | : Not in compliance with the inventory                   |
| KECI   | : On the inventory, or in compliance with the inventory  |
| IECSC  | : On the inventory, or in compliance with the inventory  |
| PICCS  | : On the inventory, or in compliance with the inventory  |
| TCSI   | : On the inventory, or in compliance with the inventory  |
| TSCA   | : All substances listed as active on the TSCA inventory  |

#### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

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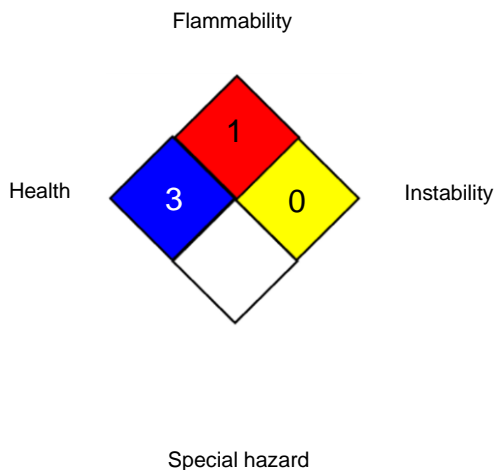
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### NFPA 704:



### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | / | 3 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Revision Date : 01/03/2024

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