# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document group:** | 32-6468-6 | **Version number:** | 5.00 |
| **Revision date:** | 09/12/2024 | **Supersedes date:** | 20/06/2024 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

**1.1. Product identifier**
Shampoo Plus (Detailer) D111 [D11101 D11105]

**Product Identification Numbers**
14-1000-0193-3 14-1001-5519-2

7100062616 7000085833

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses**
Automotive.

**1.3. Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Address:** | 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18. |
| **Telephone:** | +353 1 280 3555 |
| **E Mail:** | tox.uk@mmm.com |
| **Website:** | www.3M.com |

**1.4. Emergency telephone number**
Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

## SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**
**CLP REGULATION (EC) No 1272/2008**

Test data on the raw material is reflected in the skin and eye hazard classification for the product.
The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

**CLASSIFICATION:**
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

**2.2. Label elements**
**CLP REGULATION (EC) No 1272/2008**

**SIGNAL WORD**
WARNING.

**Symbols**
GHS07 (Exclamation mark) |

**Pictograms**

**HAZARD STATEMENTS:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Response:**

| | |
|---|---|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

**SUPPLEMENTAL INFORMATION:**

**Supplemental Hazard Statements:**

| | |
|---|---|
| EUH208 | Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction. |

**Information required per Regulation (EU) No 528/2012 on Biocidal Products:**
Contains a biocidal product (preservative): C(M)IT/MIT (3:1).

**Notes on labelling**
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004: 5-15%: anionic surfactant. <5%: amphoteric surfactant, non-ionic surfactant. Contains: Perfumes, Colorants, benzyl benzoate, Mixture of Methylchloroisothiazolinone and Methylisothiazolinone (3:1).

**2.3. Other hazards**

None known.
This material does not contain any substances that are assessed to be a PBT or vPvB

# SECTION 3: Composition/information on ingredients

**3.1. Substances**
Not applicable

**3.2. Mixtures**

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Non-Hazardous Ingredients | Mixture | 70 - 90 | Substance not classified as hazardous |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | (CAS-No.) 85586-07-8<br>(EC-No.) 287-809-4 | 2 - 5 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | (EC-No.) 931-534-0 | 1 - 4 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |
| Sodium Laurylpolyethoxyethanol Sulphate | (CAS-No.) 68891-38-3<br>(EC-No.) 500-234-8 | 1 - 3 | Aquatic Chronic 3, H412<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |
| Sodium chloride | (CAS-No.) 7647-14-5<br>(EC-No.) 231-598-3<br>(REACH-No.) 01-2119485491-33 | < 2 | Substance not classified as hazardous |
| Amines, C12-14-alkyldimethyl, N-oxides | (CAS-No.) 308062-28-4<br>(EC-No.) 931-292-6 | < 2 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 2, H411 |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | (CAS-No.) 68411-30-3<br>(EC-No.) 270-115-0 | 1 - 2 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | (EC-No.) 931-333-8 | < 2 | Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9<br>(EC-No.) 911-418-6 | < 0.0015 | EUH071<br>Acute Tox. 3, H301<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400,M=100<br>Aquatic Chronic 1, H410,M=100<br>Nota B<br>Acute Tox. 2, H330<br>Acute Tox. 2, H310 |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

**Specific Concentration Limits**

| Ingredient | Identifier(s) | Specific Concentration Limits |
|---|---|---|

| | | |
|---|---|---|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | (EC-No.) 931-333-8 | (C >= 10%) Eye Dam. 1, H318<br>(4% =< C < 10%) Eye Irrit. 2, H319 |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9<br>(EC-No.) 911-418-6 | (C >= 0.6%) Skin Corr. 1C, H314<br>(0.06% =< C < 0.6%) Skin Irrit. 2, H315<br>(C >= 0.6%) Eye Dam. 1, H318<br>(0.06% =< C < 0.6%) Eye Irrit. 2, H319<br>(C >= 0.0015%) Skin Sens. 1A, H317 |
| Sodium Laurylpolyethoxyethanol Sulphate | (CAS-No.) 68891-38-3<br>(EC-No.) 500-234-8 | (C >= 10%) Eye Dam. 1, H318<br>(5% =< C < 10%) Eye Irrit. 2, H319 |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | (EC-No.) 931-534-0 | (C >= 5%) Skin Irrit. 2, H315<br>(C >= 38%) Eye Dam. 1, H318<br>(5% =< C < 38%) Eye Irrit. 2, H319 |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | (CAS-No.) 85586-07-8<br>(EC-No.) 287-809-4 | (C >= 20%) Eye Dam. 1, H318<br>(10% =< C < 20%) Eye Irrit. 2, H319 |

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

## SECTION 4: First aid measures

**4.1. Description of first aid measures**

**Inhalation**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin contact**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**If swallowed**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**
The most important symptoms and effects based on the CLP classification include:
Irritation to the skin (localized redness, swelling, itching, and dryness). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Extinguishing media**
Material will not burn.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Irritant vapours or gases. | During combustion. |

**5.3. Advice for fire-fighters**
No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**
Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**7.2. Conditions for safe storage including any incompatibilities**
No special storage requirements.

**7.3. Specific end use(s)**
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

**Biological limit values**
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety glasses with side shields.
Indirect vented goggles.

*Applicable Norms/Standards*
Use eye protection conforming to EN 166

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended:

| **Material** | **Thickness (mm)** | **Breakthrough Time** |
|---|---|---|
| Polymer laminate | No data available | No data available |

*Applicable Norms/Standards*
Use gloves tested to EN 374

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

*Applicable Norms/Standards*
Use a respirator conforming to EN 140 or EN 136: filter types A & P

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Colour** | Blue |
| **Odor** | Weak Vanilla |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | 100 ºC |
| **Flammability** | Not applicable. |

| | |
|---|---|
| **Flammable Limits(LEL)** | *Not applicable.* |
| **Flammable Limits(UEL)** | *Not applicable.* |
| **Flash point** | No flash point |
| **Autoignition temperature** | *Not applicable.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | 7 - 8 |
| **Kinematic Viscosity** | 1,200 mm²/sec |
| **Water solubility** | Complete |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Density** | 1 g/cm3 |
| **Relative density** | 1 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | *No data available.* |
| **Evaporation rate** | *No data available.* |
| **Molecular weight** | *No data available.* |
| **Percent volatile** | *No data available.* |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

**10.2 Chemical stability**
Stable.

**10.3 Possibility of hazardous reactions**
Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**
Temperatures above the boiling point.

**10.5 Incompatible materials**
None known.

**10.6 Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition,**

**statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation**
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin contact**
Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.

**Eye contact**
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion**
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Dermal | Rat | LD50 > 2,000 mg/kg |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Ingestion | Rat | LD50 1,800 mg/kg |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Dermal | Rabbit | LD50 6,300 mg/kg |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 52 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Ingestion | Rat | LD50 2,079 mg/kg |
| Sodium Laurylpolyethoxyethanol Sulphate | Dermal | Rat | LD50 > 2,000 mg/kg |
| Sodium Laurylpolyethoxyethanol Sulphate | Ingestion | Rat | LD50 2,870 mg/kg |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Dermal | Rat | LD50 > 2,000 mg/kg |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Ingestion | Rat | LD50 1,080 mg/kg |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Dermal | Rat | LD50 > 2,000 mg/kg |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Ingestion | Rat | LD50 > 1,500 mg/day |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | Rat | LD50 1,064 mg/kg |
| Amines, C12-14-alkyldimethyl, N-oxides | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Sodium chloride | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Sodium chloride | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 10.5 mg/l |
| Sodium chloride | Ingestion | Rat | LD50 3,550 mg/kg |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] | Dermal | Rabbit | LD50 87 mg/kg |

| | | | |
|---|---|---|---|
| (3:1) | | | |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.171 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Ingestion | Rat | LD50 40 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name | Species | Value |
|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Rabbit | Irritant |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Rabbit | Irritant |
| Sodium Laurylpolyethoxyethanol Sulphate | Rabbit | Irritant |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Rabbit | Irritant |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Rabbit | Minimal irritation |
| Amines, C12-14-alkyldimethyl, N-oxides | Rabbit | Irritant |
| Sodium chloride | Rabbit | No significant irritation |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Rabbit | Corrosive |

### Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Rabbit | Corrosive |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Rabbit | Corrosive |
| Sodium Laurylpolyethoxyethanol Sulphate | Rabbit | Corrosive |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Rabbit | Corrosive |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Rabbit | Corrosive |
| Amines, C12-14-alkyldimethyl, N-oxides | Rabbit | Corrosive |
| Sodium chloride | Rabbit | Mild irritant |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Rabbit | Corrosive |

### Skin Sensitisation

| Name | Species | Value |
|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Guinea pig | Not classified |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Guinea pig | Not classified |
| Sodium Laurylpolyethoxyethanol Sulphate | Guinea pig | Not classified |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Guinea pig | Not classified |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Multiple animal species | Not classified |
| Amines, C12-14-alkyldimethyl, N-oxides | Guinea pig | Not classified |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Human and animal | Sensitising |

### Photosensitisation

| Name | Species | Value |
|---|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Human and animal | Not sensitising |

**Respiratory Sensitisation**
For the component/components, either no data is currently available or the data is not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | In Vitro | Not mutagenic |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | In Vitro | Not mutagenic |
| Sodium Laurylpolyethoxyethanol Sulphate | In Vitro | Not mutagenic |
| Sodium Laurylpolyethoxyethanol Sulphate | In vivo | Not mutagenic |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | In Vitro | Not mutagenic |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | In vivo | Not mutagenic |
| Amines, C12-14-alkyldimethyl, N-oxides | In Vitro | Not mutagenic |
| Amines, C12-14-alkyldimethyl, N-oxides | In vivo | Not mutagenic |
| Sodium chloride | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Sodium chloride | In vivo | Some positive data exist, but the data are not sufficient for classification |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | In vivo | Not mutagenic |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Ingestion | Rat | Not carcinogenic |
| Amines, C12-14-alkyldimethyl, N-oxides | Dermal | Mouse | Not carcinogenic |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | Rat | Not carcinogenic |
| Sodium chloride | Ingestion | Rat | Not carcinogenic |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Dermal | Mouse | Not carcinogenic |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Ingestion | Rat | Not carcinogenic |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Ingestion | Not classified for development | Rat | NOAEL 250 mg/kg/day | during organogenesis |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Ingestion | Not classified for development | Mouse | NOAEL 2 mg/kg/day | during organogenesis |
| Sodium Laurylpolyethoxyethanol Sulphate | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | 90 days |
| Sodium Laurylpolyethoxyethanol Sulphate | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 90 days |
| Sodium Laurylpolyethoxyethanol Sulphate | Ingestion | Not classified for development | Rat | NOAEL 300 mg/kg/day | 2 generation |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | Not classified for male reproduction | Rat | NOAEL 250 mg/kg/day | 28 days |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | Not classified for development | Rat | NOAEL 25 mg/kg/day | during gestation |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220- | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |

| | | | | | |
|---|---|---|---|---|---|
| 239-6] (3:1) | | | | | |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Ingestion | Not classified for male reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Ingestion | Not classified for development | Rat | NOAEL 15 mg/kg/day | during organogenesis |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Sodium Laurylpolyethoxyethanol Sulphate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| Amines, C12-14-alkyldimethyl, N-oxides | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | Ingestion | endocrine system \| hematopoietic system \| liver \| immune system \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 195 mg/kg/day | 2 years |
| Sodium Laurylpolyethoxyethanol Sulphate | Dermal | skin \| heart \| endocrine system \| gastrointestinal tract \| hematopoietic system \| liver \| immune system \| nervous system \| eyes \| kidney and/or bladder \| respiratory system \| vascular system | Not classified | Mouse | NOAEL 6.91 mg/day | 90 days |
| Sodium Laurylpolyethoxyethanol Sulphate | Ingestion | blood \| eyes | Not classified | Rat | NOAEL 225 mg/kg/day | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | Ingestion | heart \| endocrine system \| hematopoietic system \| liver \| nervous system \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 92 days |
| Amines, C12-14-alkyldimethyl, N-oxides | Dermal | skin | Not classified | Mouse | NOAEL 6.2 mg/kg/day | 91 days |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 88 mg/kg/day | 90 days |
| Amines, C12-14-alkyldimethyl, N-oxides | Ingestion | heart \| skin \| endocrine system \| gastrointestinal tract \| hematopoietic system \| liver \| immune system \| muscles \| nervous system \| kidney and/or bladder \| respiratory system | Not classified | Rat | NOAEL 440 mg/kg/day | 90 days |
| Sodium chloride | Ingestion | blood \| kidney and/or bladder \| vascular system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 2,240 mg/kg/day | 9 months |
| Sodium chloride | Ingestion | nervous system \| eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 1,700 mg/kg/day | 90 days |
| Sodium chloride | Ingestion | liver \| respiratory system | Not classified | Rat | NOAEL 33 mg/kg/day | 90 days |

**Aspiration Hazard**
For the component/components, either no data is currently available or the data is not sufficient for classification.

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

### 11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

## SECTION 12: Ecological information

**The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.**

### 12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Activated sludge | Analogous Compound | 3 hours | EC50 | 135 mg/l |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Green algae | Experimental | 72 hours | ErC10 | 5.4 mg/l |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Green algae | Experimental | 72 hours | ErC50 | >20 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Rainbow trout | Experimental | 96 hours | LC50 | 3.6 mg/l |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Water flea | Experimental | 48 hours | EC50 | 4.7 mg/l |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Fathead minnow | Analogous Compound | 42 days | NOEC | 1.4 mg/l |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Water flea | Analogous Compound | 7 days | NOEC | 0.88 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Diatom | Estimated | 72 hours | EC50 | 1.97 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Zebra Fish | Estimated | 96 hours | LC50 | 4.2 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Water flea | Experimental | 48 hours | EC50 | 4.53 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Diatom | Estimated | 72 hours | EC10 | 1.2 mg/l |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Water flea | Experimental | 21 days | NOEC | 2.4 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Bacteria | Experimental | 16 hours | ErC50 | >10,000 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Green algae | Experimental | 72 hours | ErC50 | 27.7 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Water flea | Experimental | 48 hours | EC50 | 7.2 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Zebra Fish | Experimental | 96 hours | LC50 | 7.1 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Water flea | Analogous Compound | 21 days | NOEC | 0.27 mg/l |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Green algae | Experimental | 72 hours | NOEC | 0.95 mg/l |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Fathead minnow | Estimated | 96 hours | LC50 | 1.11 mg/l |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Green algae | Estimated | 72 hours | EC50 | 1.5 mg/l |
| 1-Propanaminium, 3-amino-N- | 931-333-8 | Water flea | Estimated | 48 hours | EC50 | 1.9 mg/l |

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|---|---|---|---|---|---|---|
| (carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | | | | | | |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Green algae | Estimated | 72 hours | NOEC | 0.3 mg/l |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Rainbow trout | Estimated | 37 days | NOEC | 0.135 mg/l |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Water flea | Estimated | 21 days | NOEC | 0.32 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Green algae | Estimated | 72 hours | ErC50 | 0.143 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Fathead minnow | Experimental | 96 hours | LC50 | 2.67 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Invertebrate | Experimental | 96 hours | EC50 | 8.2 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Water flea | Experimental | 48 hours | EC50 | 3.1 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Green algae | Estimated | 72 hours | NOEC | 0.015 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Fathead minnow | Experimental | 302 days | NOEC | 0.42 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Water flea | Experimental | 21 days | NOEC | 0.7 mg/l |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Bacteria | Experimental | 16 hours | EC50 | 188.7 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Bacteria | Experimental | 16 hours | NOEC | 30 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Bluegill | Experimental | 96 hours | LC50 | 1.67 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Green algae | Experimental | 72 hours | ErC50 | 7.4 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium | 68411-30-3 | Water flea | Experimental | 48 hours | EC50 | 2.9 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| salts | | | | | | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Green algae | Experimental | 72 hours | NOEC | 1.28 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Rainbow trout | Experimental | 72 days | NOEC | 0.23 mg/l |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Water flea | Experimental | 21 days | NOEC | 1.18 mg/l |
| Sodium chloride | 7647-14-5 | Activated sludge | Experimental | N/A | NOEC | 8,000 mg/l |
| Sodium chloride | 7647-14-5 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 2,430 mg/l |
| Sodium chloride | 7647-14-5 | Bluegill | Experimental | 96 hours | LC50 | 5,840 mg/l |
| Sodium chloride | 7647-14-5 | Water flea | Experimental | 48 hours | LC50 | 874 mg/l |
| Sodium chloride | 7647-14-5 | Fathead minnow | Experimental | 33 days | NOEC | 252 mg/l |
| Sodium chloride | 7647-14-5 | Water flea | Experimental | 21 days | NOEC | 314 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Activated sludge | Experimental | 3 hours | NOEC | 0.91 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Bacteria | Experimental | 16 hours | EC50 | 5.7 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Copepod | Experimental | 48 hours | EC50 | 0.007 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Diatom | Experimental | 72 hours | ErC50 | 0.0199 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Green algae | Experimental | 72 hours | ErC50 | 0.027 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Rainbow trout | Experimental | 96 hours | LC50 | 0.19 mg/l |

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|---|---|---|---|---|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Sheepshead Minnow | Experimental | 96 hours | LC50 | 0.3 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Water flea | Experimental | 48 hours | EC50 | 0.099 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Diatom | Experimental | 48 hours | NOEC | 0.00049 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Fathead minnow | Experimental | 36 days | NOEL | 0.02 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Green algae | Experimental | 72 hours | NOEC | 0.004 mg/l |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Water flea | Experimental | 21 days | NOEC | 0.004 mg/l |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Experimental Biodegradation | 28 days | BOD | 96 %BOD/ThOD | OECD 301D - Closed bottle test |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Experimental Biodegradation | 28 days | CO2 evolution | 80 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 100 %CO2 evolution/THCO2 evolution | EC C.4.C. CO2 Evolution Test |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Estimated Biodegradation | 28 days | CO2 evolution | 87.2 %CO2 evolution/THCO2 evolution | |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Experimental Biodegradation | 28 days | Demanda química de oxigênio | 90 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Experimental Biodegradation | 21 days | Demanda química de oxigênio | 75 %CO2 evolution/THCO2 evolution | OECD 303A - Simulated Aerobic |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |

| | | | | | | |
|---|---|---|---|---|---|---|
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Experimental Biodegradation | 29 days | CO2 evolution | 85 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Sodium chloride | 7647-14-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Analogous Compound Biodegradation | 29 days | CO2 evolution | 62 %CO2 evolution/THCO2 evolution (does not pass 10-day window) | OECD 301B - Modified sturm or CO2 |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | > 60 days (t 1/2) | |

### 12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts | 85586-07-8 | Experimental Bioconcentration | | Log Kow | 0.78 | OECD 123 log Kow slow stir |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 931-534-0 | Estimated Bioconcentration | | Log Kow | -1.3 | |
| Sodium Laurylpolyethoxyethanol Sulphate | 68891-38-3 | Experimental Bioconcentration | | Log Kow | 0.3 | OECD 123 log Kow slow stir |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts | 931-333-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Estimated Bioconcentration | | Log Kow | <2.69 | |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Experimental BCF - Fish | 192 hours | Bioaccumulation factor | 2-987 | OECD305-Bioconcentration |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Experimental Bioconcentration | | Log Kow | 1.4 | OECD 123 log Kow slow stir |
| Sodium chloride | 7647-14-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation factor | 54 | OECD305-Bioconcentration |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Analogous Compound Bioconcentration | | Log Kow | 0.4 | |

### 12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| Sulfuric acid, mono-C12-14-alkyl esters, sodium | 85586-07-8 | Experimental Mobility in Soil | Koc | 316-1567 l/kg | |

| | | | | | |
|---|---|---|---|---|---|
| salts | | | | | |
| Amines, C12-14-alkyldimethyl, N-oxides | 308062-28-4 | Experimental Mobility in Soil | Koc | 1,525 l/kg | OECD 106 Adsp-Desb Batch Equil |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts | 68411-30-3 | Experimental Mobility in Soil | Koc | 2,500 l/kg | |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 | Experimental Mobility in Soil | Koc | 10 l/kg | OECD 106 Adsp-Desb Batch Equil |

**12.5. Results of the PBT and vPvB assessment**

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

**12.7. Other adverse effects**
No information available.

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of the manufacturer, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/CE and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor

**EU waste code (product as sold)**
20 01 29* Detergents containing dangerous substances

## SECTION 14: Transportation information

Not hazardous for transportation.

| | **Ground Transport (ADR)** | **Air Transport (IATA)** | **Marine Transport (IMDG)** |
|---|---|---|---|
| **14.1 UN number or ID number** | No data available. | No data available. | No data available. |

| | | | |
|---|---|---|---|
| **14.2 UN proper shipping name** | No data available. | No data available. | No data available. |
| **14.3 Transport hazard class(es)** | No data available. | No data available. | No data available. |
| **14.4 Packing group** | No data available. | No data available. | No data available. |
| **14.5 Environmental hazards** | No data available. | No data available. | No data available. |
| **14.6 Special precautions for user** | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| **14.7 Marine Transport in bulk according to IMO instruments** | No data available. | No data available. | No data available. |
| **Control Temperature** | No data available. | No data available. | No data available. |
| **Emergency Temperature** | No data available. | No data available. | No data available. |
| **ADR Classification Code** | No data available. | No data available. | No data available. |
| **IMDG Segregation Code** | No data available. | No data available. | No data available. |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Restrictions on the manufacture, placing on the market and use:**
The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| Ingredient | CAS Nbr |
|---|---|
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) | 55965-84-9 |

Restriction status: listed in REACH Annex XVII
Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

**Global inventory status**
Contact manufacturer for more information The components of this material are in compliance with the provisions of the

Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

**DIRECTIVE 2012/18/EU**
Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

**Regulation (EU) No 649/2012**
No chemicals listed

**15.2. Chemical Safety Assessment**
A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

**List of relevant H statements**

| | |
|---|---|
| EUH071 | Corrosive to the respiratory tract. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

**Revision information:**
Section 3: Composition/ Information of ingredients table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being

provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

**Meguiar's, Inc. Ireland SDSs are available at www.3M.com**