

# Safety Data Sheet

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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 3555E Mail:tox.uk@mmm.comWebsite: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 ca    | utiously 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<br>(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<br>and C14-16-alkene, sodium salts  | (EC-No.) 931-534-0  | 1 - 4    | Skin Irrit. 2, H315<br>Eye Dam. 1, H318  |
| Sodium Laurylpolyethoxyethanol<br>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-<br>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<br>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-<br>(carboxymethyl)-N,N-dimethyl-, N-(C8-<br>18(even numbered) and C18 unsaturated<br>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-<br>isothiazolin-3-one [EC no. 247-500-<br>7]and 2-methyl-2H-isothiazol-3-one [EC<br>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-<br>(carboxymethyl)-N,N-dimethyl-, N-(C8-   | (EC-No.) 931-333-8                         | (C>= 10%) Eye Dam. 1, H318<br>(4% =< C < 10%) Eye Irrit. 2, H319   |
|--|--|--|
| 18(even numbered) and C18 unsaturated<br>acyl) derivs., hydroxides, inner salts  |  |  |
| reaction mass of: 5-chloro-2-methyl-4-<br>isothiazolin-3-one [EC no. 247-500-7]and 2-<br>methyl-2H-isothiazol-3-one [EC no. 220-<br>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**

<u>Substance</u> Carbon monoxide Carbon dioxide. Irritant vapours or gases. <u>Condition</u> During combustion. During combustion. 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 Polymer laminate Thickness (mm) No data available **Breakthrough Time** 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

| Liquid.            |
|--------------------|
| Blue               |
| Weak Vanilla       |
| No data available. |
| Not applicable.    |
| 100 °C             |
| 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.           |
| рН                                     | 7 - 8                        |
| Kinematic Viscosity                    | 1,200 mm <sup>2</sup> /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 [ <i>Ref Std</i> :WATER=1] |
| Relative Vapour Density                | No data available.           |
|  |                              |
| Particle Characteristics               | Not applicable.              |
|  |                              |
| 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** 

None known.

## **Condition**

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-<br>Dust/Mist<br>(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-,<br>N-(C8-18(even numbered) and C18 unsaturated acyl) derivs.,<br>hydroxides, inner salts | Dermal                                | Rat                      | LD50 > 2,000 mg/kg                             |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-,<br>N-(C8-18(even numbered) and C18 unsaturated acyl) derivs.,<br>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<br>compoun<br>ds | LD50 > 2,000 mg/kg                             |
| Sodium chloride  | Dermal                                | Rabbit                   | LD50 > 10,000 mg/kg                            |
| Sodium chloride  | Inhalation-<br>Dust/Mist<br>(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. | Inhalation- | Rat | LC50 0.171 mg/l |
| 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]    | Dust/Mist   |     |                 |
| (3:1)  | (4 hours)   |     |                 |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. | Ingestion   | Rat | LD50 40 mg/kg   |
| 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]    | -           |     |                 |
| (3:1)  |             |     |                 |

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        | Rabbit  | Minimal irritation        |
| numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts           |         |                           |
| 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 | Rabbit  | Corrosive                 |
| 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)                          |         |                           |

## 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        | Rabbit  | Corrosive     |
| numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts           |         |               |
| 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 | Rabbit  | Corrosive     |
| 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)                          |         |               |

## **Skin Sensitisation**

| Name   | Species                       | Value          |
|--|-------------------------------|----------------|
|  |                               |                |
| Sulfuric acid, mono-C12-14-alkyl esters, sodium salts  | Guinea<br>pig                 | Not classified |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts  | Guinea<br>pig                 | Not classified |
| Sodium Laurylpolyethoxyethanol Sulphate  | Guinea<br>pig                 | Not classified |
| Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts   | Guinea<br>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<br>animal<br>species | Not classified |
| Amines, C12-14-alkyldimethyl, N-oxides   | Guinea<br>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<br>and<br>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<br>and | Not sensitising |
|  | animal       |                 |

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

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

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

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

## Specific Target Organ Toxicity - repeated exposure

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

| 1-Propanaminium, 3-<br>amino-N-(carboxymethyl)-<br>N,N-dimethyl-, N-(C8-<br>18(even numbered) and<br>C18 unsaturated acyl)<br>derivs., hydroxides, inner<br>salts | Ingestion | heart   endocrine<br>system  <br>hematopoietic<br>system   liver  <br>nervous system  <br>eyes   kidney and/or<br>bladder  | Not classified   | Rat   | NOAEL<br>1,000<br>mg/kg/day | 92 days  |
|---|-----------|--|--|-------|-----------------------------|----------|
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | Dermal    | skin   | Not classified   | Mouse | NOAEL 6.2<br>mg/kg/day      | 91 days  |
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | Ingestion | eyes   | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL 88<br>mg/kg/day       | 90 days  |
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | Ingestion | heart   skin  <br>endocrine system  <br>gastrointestinal tract<br>  hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous<br>system   kidney<br>and/or bladder  <br>respiratory system | Not classified   | Rat   | NOAEL 440<br>mg/kg/day      | 90 days  |
| Sodium chloride   | Ingestion | blood   kidney<br>and/or bladder  <br>vascular system  | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL<br>2,240<br>mg/kg/day | 9 months |
| Sodium chloride   | Ingestion | nervous system  <br>eyes   | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL<br>1,700<br>mg/kg/day | 90 days  |
| Sodium chloride   | Ingestion | liver   respiratory<br>system  | Not classified   | Rat   | NOAEL 33<br>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         | Туре                  | Exposure | Test endpoint | Test result |
|--|------------|------------------|-----------------------|----------|---------------|-------------|
| Sulfuric acid, mono-<br>C12-14-alkyl esters,<br>sodium salts | 85586-07-8 | Activated sludge | Analogous<br>Compound | 3 hours  | EC50          | 135 mg/l    |
| Sulfuric acid, mono-<br>C12-14-alkyl esters,<br>sodium salts | 85586-07-8 | Green algae      | Experimental          | 72 hours | ErC10         | 5.4 mg/l    |
| Sulfuric acid, mono-<br>C12-14-alkyl esters,<br>sodium salts | 85586-07-8 | Green algae      | Experimental          | 72 hours | ErC50         | >20 mg/l    |

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

|  | r                     | 1           | 1                 | -            | -         |        | 1          |
|--|-----------------------|-------------|-------------------|--------------|-----------|--------|------------|
| 18(evol numbered) and<br>CFS mistrated as ()<br>derivs, hydroxids,<br>micer alia<br>CFS mistrated as ()<br>derivs, hydroxids,<br>micer alia<br>Reven numbered) and<br>CFS mistrated as ()<br>derivs, hydroxids,<br>micer alia<br>Rev                             |                       |             |                   |              |           |        |            |
| C18 unstrund act)       generalized       generalized       generalized       generalized         Inter value       generalized       generalized       generalized       generalized       generalized         Inter value       generalized  |                       |             |                   |              |           |        |            |
| derivs.     proposality     931-33-8     Green algae     Estimated     72 hours     NOEC     0.3 mg/l       infordp1.     v(Cs)     v(Cs)     v(Cs)     v(Cs)     v(Cs)     v(Cs)     v(Cs)       infordp1.     v(Cs)     v(Cs)     v(Cs)     v(Cs)     v(Cs)       infordp1. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                       |             |                   |              |           |        |            |
| inner salts     out     out       Linopagnamium, 3-<br>amino-N-<br>Genosymethyl-NAN<br>dimediyl-NACS     Green algae     Estimated     72 hours     NOEC     0.3 mg/l       CB unstartical appl<br>derivs., pdotxides,<br>inter salts     931-533-8     Rainbow troat     Estimated     37 days     NOEC     0.135 mg/l       Leopostartical appl<br>derivs., pdotxides,<br>inter salts     931-533-8     Rainbow troat     Estimated     37 days     NOEC     0.135 mg/l       Leopostartical appl<br>derivs., hydoxides,<br>inter salts     931-533-8     Rainbow troat     Estimated     37 days     NOEC     0.135 mg/l       Leopostartical appl<br>derivs., hydoxides,<br>inter salts     931-533-8     Rainbow troat     Estimated     21 days     NOEC     0.22 mg/l       Leopostartical appl<br>derivs., hydoxides,<br>inter salts     931-533-8     Water flea     Estimated     21 days     NOEC     0.22 mg/l       Minestry., N4 Ca-<br>stroat     930602-28-4     Green algae     Estimated     72 hours     EtCS0     0.143 mg/l       Attrines, CL21-4     308062-28-4     Invertebrate     Experimental     96 hours     ECS0     8.2 mg/l       alcytlinedryl, N-<br>scides     308062-28-4     Invertebrate     Experimental     48 hours     FCS0     3.1 mg/l       alcytlinedryl, N-<br>scides     308062-28-4     Green algae     Estimated     72 hou   |                       |             |                   |              |           |        |            |
| 1-Programmium, 3-<br>marine N-<br>(carboxynethyl-N,N-<br>dimethyl, N,C-<br>Sill sumatical acyl)<br>or non-spin structures,<br>more spin     931-333-8     Green algae     Estimated     72 hours     NOEC     0.3 mg/l       18/even numbered) and<br>C18 instructures,<br>more spin     931-333-8     Rainbow trout     Estimated     37 days     NOEC     0.135 mg/l       18/even numbered) and<br>C18 instructures dayl)<br>dimethyl, N,C-<br>metricalic     931-333-8     Water flea     Estimated     21 days     NOEC     0.32 mg/l       18/even numbered) and<br>C18 instructured acyl)<br>derivs, hydroxide,<br>metricalic     931-333-8     Water flea     Estimated     21 days     NOEC     0.32 mg/l       18/even numbered) and<br>C18 instructured acyl)<br>derivs, hydroxide,<br>state allo     931-333-8     Water flea     Estimated     72 hours     NOEC     0.32 mg/l       18/even numbered) and<br>C18 instructured acyl)<br>derivs, hydroxide,<br>state allo     308062-28-4     Green algae     Estimated     72 hours     ErC50     2.67 mg/l       18/even numbered) and<br>C12+4     308062-28-4     Farbeal minnow     Experimental     96 hours     LC50     2.67 mg/l       18/even numbered) and<br>C12+4     308062-28-4     Farbeal minnow     Experimental     96 hours     EC50     8.2 mg/l       18/even numbered) and<br>C12+4     308062-28-4     Farbeal minnow     Experimental     48 hours     EC50     3.1 mg/l       18   |                       |             |                   |              |           |        |            |
| amine-N-<br>Grotosynethyly-N-N-<br>dimethyl, N-VC6<br>Reven aunbered) and<br>C18 unstarated acyl)<br>derives, hydroxides,<br>more N-<br>Garbosynethyl-N-N-<br>derives, hydroxides,<br>inter 3alts<br>14 Your aunbered) and<br>C18 unstarated acyl)<br>derives, hydroxides,<br>inter 3alts<br>308062-28-4<br>Invertebrate<br>15 Your aunbered)<br>16 hours<br>16 Yours<br>16 hours<br>16 Yours<br>16 hours<br>16 hours<br>17 hours<br>16 hours<br>17 hours<br>16 hours<br>16 hours<br>17 hours<br>16 hours<br>17 hours<br>16 hours<br>17 hours<br>16 hours<br>17 hours<br>17 hours<br>17 hours<br>18 hours<br>17 hours<br>17 hours<br>18 hours<br>10          |                       |             |                   |              |           |        |            |
| (carboxynethyl-N,N-<br>directly), N-C8<br>Beven numbered) and<br>C18 unsaturated acyl<br>dervs., hydroxides,<br>niner alids931-333-8Rainbow troutEstimated37 daysNOEC0.135 mg/l1-Frognamminum, 3-<br>marno-N-<br>(carboxynethyl-N,N-<br>INeven numbered) and<br>C18 unsaturated acyl)<br>dervs., hydroxides,<br>inner alids931-333-8Rainbow troutEstimated37 daysNOEC0.135 mg/l1-Frognamminum, 3-<br>marno-N-<br>(carboxynethyl-N,N-<br>directly), N-C8-<br>INEven numbered) and<br>C18 unsaturated acyl)<br>derivs., hydroxides,<br>inner alids931-333-8Water fleaEstimated21 daysNOEC0.32 mg/l1-Frognamminum, 3-<br>marnino-N-<br>(carboxynethyl-N,N-<br>directly), N-C6-<br>inner alids931-333-8Water fleaEstimated21 daysNOEC0.32 mg/l1-Steven numbered) and<br>C18 unsaturated acyl)<br>derivs., hydroxides,93060-28-4Green algaeEstimated72 hoursErC500.143 mg/l1-Steven numbered) and<br>C18 unsaturated acyl)<br>derivs., hydroxides,11Steven numbered) and<br>c19112-14<br>alkydimerbyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursEC508.2 mg/l2-15<br>anises, C12-14-<br>alkydimerbyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/l2-14<br>alkydimerbyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.015 mg/l2-14<br>alkydimerbyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC  |                       | 931-333-8   | Green algae       | Estimated    | 72 hours  | NOEC   | 0.3 mg/l   |
| dimethyl, N-4Ce,<br>Bleven aunbered) and<br>C18 unstrunct acyl)<br>derivs, hydroxides,<br>inner salls<br>1-Proparaminium, 3-<br>amino-N-<br>(carboxymethyl-N,N-<br>dimethyl, N-4C8.<br>Bleven numbered) and<br>C12-14.<br>Bleven and<br>Bleven and   |                       |             |                   |              |           |        |            |
| 18(even numbered) and<br>C18 unstrutted acyl)<br>derivs. hydroxids,<br>inter salts       921-333-8       Rainbow trout       Estimated       37 days       NOEC       0.135 mg/l         1-Proparamitium, 3-<br>mitres Alls       921-333-8       Rainbow trout       Estimated       37 days       NOEC       0.135 mg/l         1-Proparamitium, 3-<br>mitres Alls       921-333-8       Water flea       Estimated       21 days       NOEC       0.32 mg/l         1-Proparamitium, 3-<br>mitres Alls       921-333-8       Water flea       Estimated       21 days       NOEC       0.32 mg/l         1-Proparamitium, 3-<br>marines, C12-14-<br>alkydimethyl, N-<br>colds       308062-28-4       Green algae       Estimated       72 hours       ErC50       0.143 mg/l         Amines, C12-14-<br>alkydimethyl, N-<br>colds       308062-28-4       Fathead minnow       Experimental       96 hours       LC50       2.67 mg/l         alkydimethyl, N-<br>colds       308062-28-4       Water flea       Experimental       48 hours       EC50       8.2 mg/l         alkydimethyl, N-<br>colds       308062-28-4       Water flea       Experimental       48 hours       EC50       8.1 mg/l         alkydimethyl, N-<br>colds       308062-28-4       Water flea       Experimental       302 days       NOEC       0.015 mg/l         alkydimethyl, N-<br>colds   |                       |             |                   |              |           |        |            |
| C18 unstaturated acyl)<br>derivs., hydroxides,<br>inner salts     931-333-8.     Rainbow trout     Estimated     37 days     NOEC     0.135 mg/l       Hydroxides,<br>inner salts     931-333-8.     Rainbow trout     Estimated     37 days     NOEC     0.135 mg/l       Reven numbercal) and<br>C18 unstrunted acyl)<br>derivs., hydroxides,<br>inner salts     931-333-8.     Water flea     Estimated     21 days     NOEC     0.32 mg/l       Carboxymethyl-N.N<br>damethyl, N-(C8-<br>IR/Sumstaturated acyl)<br>derivs., hydroxides,<br>inner salts     931-333-8.     Water flea     Estimated     21 days     NOEC     0.32 mg/l       Carboxymethyl-N.N<br>damethyl, N-(C8-<br>IR/Sumstaturated acyl)<br>derivs., hydroxides,<br>inner salts     308062-28-4.     Green algae     Estimated     72 hours     ErC50     0.143 mg/l       Rigvelmethyl, N-<br>oxides     308062-28-4.     Fathead minnow     Experimental     96 hours     EC50     8.2 mg/l       Amines, C12-14-<br>alkydimethyl, N-<br>oxides     308062-28-4.     Invertebrate     Experimental     96 hours     EC50     8.2 mg/l       Amines, C12-14-<br>alkydimethyl, N-<br>oxides     308062-28-4.     Invertebrate     Experimental     96 hours     EC50     8.2 mg/l       Amines, C12-14-<br>alkydimethyl, N-<br>oxides     308062-28-4.     Fathead minnow     Experimental     16 hours     EC50     0.015 mg/l       Amines, C12-14-<br>alkydimethyl, N-<br>oxides   |                       |             |                   |              |           |        |            |
| derivs., hydroxide,<br>iner saltsggg1-Proparaminum, 3-<br>aminos N-<br>(carboxynethy)-N.N-<br>derivs., hydroxides,<br>iner salts37 daysNOEC0.135 mg/l12 (carboxynethy)-N.N-<br>derivs., hydroxides,<br>iner salts931-333-8Rainbow troutEstimated37 daysNOEC0.22 mg/l12 (carboxynethy)-N.N-<br>derivs., hydroxides,<br>iner salts931-333-8Water fleaEstimated21 daysNOEC0.32 mg/l14 (carboxynethy)-N.N-<br>derivs., hydroxides,<br>iner salts931-333-8Water fleaEstimated21 daysNOEC0.32 mg/l14 (carboxynethy)-N.N-<br>derivs., hydroxides,<br>iner salts938062-28-4Green algaeEstimated72 hoursErC500.143 mg/l18 (even numbercia) and<br>derivs. hydroxides,<br>inner salts308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/l21 (carboxynethy)-No<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/l21 (carboxynethy)-No<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/l21 (carboxynethy)-No<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/l21 (carboxynethy)-No<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/l21 (carboxynethy)-No<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l21 (carboxynethy)-No<br>oxides308062-28-4Bacteria<   |                       |             |                   |              |           |        |            |
| inner salis     inner salis     inner salis     inner salis       1-troppannium, 3-<br>amino-N-<br>(archocymethyl)-NN-<br>dimethyl, N4(C8-<br>inter salis     Rainbow trout     Estimated     37 days     NOEC     0.135 mg/l       11 Reven numbered) and<br>C18 unstantated acyl)<br>derivs, hydroxides,<br>inner salis     931-333-8     Water flea     Estimated     21 days     NOEC     0.32 mg/l       11 Reven numbered) and<br>C18 unstantated acyl)<br>derivs, hydroxides,<br>inner salis     931-333-8     Water flea     Estimated     21 days     NOEC     0.32 mg/l       11 Reven numbered) and<br>C18 unstantated acyl)<br>derivs, hydroxides,<br>inner salis     0.143 mg/l     0.143 mg/l     0.143 mg/l       12 Romannes, C12-14-<br>alkyldimethyl, N-<br>coxides     308062-28-4     Fathead minnow     Experimental     96 hours     1.C50     2.67 mg/l       12 Rumes, C12-14-<br>alkyldimethyl, N-<br>coxides     308062-28-4     Invertebrate     Experimental     96 hours     EC50     8.2 mg/l       12 Rumes, C12-14-<br>alkyldimethyl, N-<br>coxides     308062-28-4     Invertebrate     Experimental     96 hours     EC50     3.1 mg/l       13 Rumes, C12-14-<br>alkyldimethyl, N-<br>coxides     308062-28-4     Green algae     Estimated     72 hours     NOEC     0.015 mg/l       21 Rumes, C12-14-<br>alkyldimethyl, N-<br>coxides     308062-28-4     Green algae     Experimental     14 hours     EC50     3.1 mg/l  |                       |             |                   |              |           |        |            |
| 1-Programminum, 3-<br>marinos N-<br>(carboxymethyl)-N,N-<br>dimethyl, N-(CB-<br>Bleven numbered) and<br>C1S unsutrated acyl)<br>derivs, hydroxides,<br>inter salts       931-333-8       Rainbow trout       Estimated       37 days       NOEC       0.135 mg/l         1Stycen numbered) and<br>C1S unsutrated acyl)<br>derivs, hydroxides,<br>inter salts       931-333-8       Water flea       Estimated       21 days       NOEC       0.32 mg/l         1-Programminum, 3-<br>marinos N-<br>(carboxymethyl-N,N-<br>derivs, hydroxides,<br>amines, C12-14-<br>altydimethyl, N-<br>oxides       308062-28-4       Green algae       Estimated       72 hours       ErCS0       0.143 mg/l         21 days       308062-28-4       Fathead minnow       Experimental       96 hours       LC50       2.67 mg/l         21 days       308062-28-4       Invertebrate       Experimental       96 hours       LC50       8.2 mg/l         21 days(damethyl, N-<br>oxides       308062-28-4       Invertebrate       Experimental       96 hours       EC50       8.2 mg/l         21 days(damethyl, N-<br>oxides       308062-28-4       Water flea       Experimental       48 hours       EC50       3.1 mg/l         21 days       NOEC       0.015 mg/l       310 mg/l       302 days       NOEC       0.42 mg/l         21 days       308062-28-4       Green algae       Experimental       302 days       NOEC       0  |                       |             |                   |              |           |        |            |
| antino-N-<br>(arbocymethy)-No-<br>dimethy, N-(C8.<br>Bigveon numbered) and<br>C18 ussturated acyl)<br>derivs, hydroxides,<br>inner salts<br>1-Fropanaminum, 3-<br>antino-N-<br>(arbocymethy)-No-<br>dimethy), N-C6.<br>Bigveon numbered) and<br>C18 ussturated acyl)<br>derivs, hydroxides,<br>inner salts<br>1-Fropanaminum, 3-<br>antino-N-<br>(arbocymethy)-No-<br>dimethy), N-C6.<br>Bigveon numbered) and<br>C18 ussturated acyl)<br>derivs, hydroxides,<br>inner salts<br>1-Fropanaminum, 3-<br>antino-N-<br>(arbocymethy)-No-<br>dimethyl, N-C6.<br>Bigveon numbered) and<br>C18 ussturated acyl)<br>derivs, hydroxides,<br>inner salts<br>1-Fropanaminum, 3-<br>antino-N-<br>(arbocymethyl)-No-<br>antines, C12-14.<br>altyldimethyl, N-<br>codes<br>Armines, C12-14.<br>altyl   |                       | 021 222 0   | D 1 / /           |              | 27.1      | NOTO   | 0.125 //   |
| (carboxymethy)-N.N.<br>derivs, hydroxides,<br>iner salts931-33-8Water fleaEstimated21 daysNOEC0.32 mg/l1-Proparaminium, 3-<br>amino-N-<br>(carboxymethy)-N.N.<br>derivs, hydroxides,<br>iner salts931-33-8Water fleaEstimated21 daysNOEC0.32 mg/l1-Proparaminium, 3-<br>inno-N-<br>(carboxymethy)-N.N.<br>derivs, hydroxides,<br>iner salts308062-28-4Green algaeEstimated72 hoursErC500.143 mg/l138(ven numbered) and<br>Cl21-14-<br>alkydimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursEC508.2 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.42 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4BacteriaExperimental302 daysNOEC0.7 mg/l2014<br>alkydimethyl, N-<br>oxides308062-28-4BacteriaExperimental </td <td></td> <td>931-333-8</td> <td>Rainbow trout</td> <td>Estimated</td> <td>3 / days</td> <td>NOEC</td> <td>0.135 mg/l</td>   |                       | 931-333-8   | Rainbow trout     | Estimated    | 3 / days  | NOEC   | 0.135 mg/l |
| dimethyl, N-(CA-<br>IRVers nutbretod) and<br>C18 ursaturated acyl)<br>derivs, hydroxides,<br>inner stils<br>1-Poparaminium, 3-<br>91-333-8<br>witer flea<br>Estimated<br>1-Poparaminium, 3-<br>91-333-8<br>witer flea<br>Estimated<br>21 days<br>NOEC<br>0.32 mg/l<br>0.143 mg/l<br>0.15 mg/l |                       |             |                   |              |           |        |            |
| 18(voir numbered) and<br>derivs, hydroxides,<br>inner satts<br>mers stats931-333-8Water fleaEstimated21 daysNOEC0.32 mg/l1-Proparaminum, 3-<br>(carboxymethy)-N,N-<br>dicriby, hydroxides,<br>inner satts308062-28-4Green algaeEstimated21 daysNOEC0.32 mg/l18(voir numbered) and<br>Cl's unstaturated acyl)<br>derivs, hydroxides,<br>inner satts308062-28-4Green algaeEstimated72 hoursErC500.143 mg/l200062-28-4Green algaeEstimated72 hoursErC500.143 mg/l201071-14308062-28-4Fathead minnowExperimental96 hoursEC508.2 mg/l201082-28-4InvertebrateExperimental96 hoursEC508.2 mg/l201092-28-4InvertebrateExperimental96 hoursEC503.1 mg/l201092-28-4Stoto-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l201092-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l201092-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l201092-28-4Green algaeEstimated72 hoursNOEC0.021 mg/l201092-28-4Stoto-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/l201092-28-4Stoto-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/l201093-20194Stoto-28-4BateriaExperimental302 daysNOEC0.7 mg/l201403-20194Stoto   |                       |             |                   |              |           |        |            |
| C18 unstantanted acyl)       Image: subscription of the state of the  |                       |             |                   |              |           |        |            |
| derivs. hydroxides.Image saltsWater fleaEstimated21 daysNOEC0.32 mg/l1-Propnaminum.3-<br>amino-N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(farboxymethy)-N,N-<br>(farboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N,N-<br>(carboxymethy)-N-<br>(Carboxymethy)-N-<br>(Carboxymethy)-N-<br>(Carboxymethy)-N-<br>(Carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxymethy)-N-<br>(carboxym   |                       |             |                   |              |           |        |            |
| inner salts1-10-poparamium, 3-<br>amino-N-<br>(acrboxymethyl)-N, N-<br>dmethyl, N- CC3-<br>IKeven numbered) and<br>C18 unsaturated acyll<br>derivs, hydroxides,<br>imer salts308062-28-4Estimated21 daysNOEC0.32 mg/l1.11<br>(Reven numbered) and<br>C18 unsaturated acyll<br>derivs, hydroxides,<br>imer salts308062-28-4Green algaeEstimated72 hoursErC500.143 mg/l1.12<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/l1.12<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/l1.12<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.1 mg/l1.14<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l1.15<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/l1.16<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.42 mg/l1.16<br>(C1-14-<br>alkydimethyl, N-<br>oxides308062-28-4Water fleaExperimental12 daysNOEC0.7 mg/l1.17<br>(Arnines, C12-14-<br>alkydimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/l1.16<br><td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                       |             |                   |              |           |        |            |
| 1-Propriaminum, 3-<br>amino-N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N,N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(arboxymethyl)-N-<br>(a  |                       |             |                   |              |           |        |            |
| anina-N.<br>(arboxymethyl)-N.N<br>dimethyl)-N.N<br>dimethyl, N.N. (28-<br>River anihar saits<br>Amines, C12-14-<br>alkyldimethyl, N.<br>oxides<br>Amines, C12-14-<br>alkyldimethyl, N.<br>oxides<br>Bacteria<br>Experimental<br>16 hours<br>EC50<br>188.7 mg/l<br>C10-13-alkyl<br>derivatives, sodium<br>alts<br>Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>alts<br>Benzenesulfonic acid,<br>C10-13-a   |                       | 021 222 9   | Water fl          | Estimat-1    | 21 day    | NOEC   | 0.22 mg/l  |
| (carboxymethy)-N-N-<br>inter saltsReven numbered) and<br>(18 instructed acy), hybrixeds,<br>inter saltsGreen algaeEstimated72 hoursErC500.143 mg/l308062-28-4Green algaeEstimated72 hoursErC500.143 mg/l0.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursEC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental96 hoursEC503.1 mg/lalkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental302 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hoursNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hours </td <td></td> <td>8-666-166</td> <td>water nea</td> <td>Estimated</td> <td>21 days</td> <td>NOEC</td> <td>0.52 mg/1</td>   |                       | 8-666-166   | water nea         | Estimated    | 21 days   | NOEC   | 0.52 mg/1  |
| dimethyl, N-(C8-<br>IRVevn numberd) and<br>C18 unsutrarted acyl)<br>derivs, hydroxides,<br>inner saits308062-28-4Green algaeEstimated72 hoursErC500.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursErC500.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hoursC001.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BateriaExperimental16 hoursEC501.88.7 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |                       |             |                   |              |           |        |            |
| 18(even numbered) and<br>(cli s mastructed acy))<br>derivs, hydroxides,<br>inner saltsSourceCite and<br>substructed acy)<br>derivs, hydroxides,<br>inner saltsCite and<br>substructed acy)Cite and<br>su   |                       |             |                   |              |           |        |            |
| C1's unsaturated acyl)Arnines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursErC500.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC0.7 mg/lBenzenesulfonic acid,<br>odies68411-30-3Green algaeExperimental16 hoursLC501.67 mg/lBenzenesulfonic acid,<br>odies68411-30-3Green algae  |                       |             |                   |              |           |        |            |
| derivs., hydroxids,<br>imer saltsGreen algaeEstimated72 hoursErC500.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulforic acid,<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lC10-13-alkyl<br>derivatives, sodium<br>saltsBluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl68411-30-3Green algaeExperimental72 hoursEC507.4 mg/lBenzenesulfonic acid,<br><td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |                       |             |                   |              |           |        |            |
| inner salts  |                       |             |                   |              |           |        |            |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursErC500.143 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.017 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC0.7 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental16 hours </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesSourceExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4InvertebrateExperimental48 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4Water fleaExperimental48 hoursEC500.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4Water fleaExperimental21 daysNOEC0.7 mg/lAlkyldimethyl, N-<br>oxides308062-28.4BateriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4BateriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28.4BateriaExperimental16 hoursEC501.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BateriaExperimental16 hoursNOEC0.7 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/l<   |                       | 308062 28 4 | Green algae       | Estimated    | 72 hours  | ErC50  | 0.1/3 mg/l |
| oxidesccccAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental16 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives   |                       | 508002-28-4 | Ofcen algae       | Estimated    | 72 110015 | LICSU  | 0.145 mg/1 |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental96 hoursLC502.67 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lalkyldimethyl, N-<br>oxidesAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental21 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c  | 5 5 7                 |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesalkyldimethyl, N-<br>oxidesalkyldimethyl, N-<br>oxidesalkyldimethyl, N-<br>oxidesSec508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides64411-30-3BacteriaExperimental16 hoursNOEC30 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts64411-30-3Green algaeExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>erivatives, sodium<br>salts64411-30-3Green algaeExperimental72 hoursFC507.4 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts64411-30-3Green algaeExperimental72 hoursEC502.9 mg/lBenzenesulfonic acid,<br>erivatives, sodium<br>salts64411-30-3Green algaeExperime   |                       | 308062-28-4 | Eathead minnow    | Experimental | 96 hours  | L C 50 | 2 67 mg/l  |
| oxidesendendendendendAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>salts68411-30-3Green algaeExperimental16 hoursLC501.67 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>saltsGreen algaeExperimental72 hoursProfile2.0 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>saltsGreen algaeExperimental72 hoursLC501.67 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>saltsGreen algaeExperimental72 hoursProfile2.9 mg/lBenzenesulfonic acid,<br>etrivatives, sodium<br>sal   |                       | 500002-20-4 | 1 atticad minitow | Experimental | 50 110013 | LC50   | 2.07 mg/1  |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4InvertebrateExperimental96 hoursEC508.2 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental48 hoursEC502.9 mg/l <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesNormanSourceSourceAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental116 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>odrivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>odrivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>odrivatives, sodium<br>salts68411-30-3Green algaeExperimental48 hoursEC502.9 mg/lBenzenesulfonic acid,<br>odrivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBen   |                       | 308062 28 4 | Invertebrate      | Experimental | 06 hours  | EC50   | 8 2 mg/l   |
| oxidesccccAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3 <td></td> <td>500002-20-4</td> <td>Inverteblate</td> <td>Experimental</td> <td>50 110013</td> <td>LC50</td> <td>0.2 mg/1</td>   |                       | 500002-20-4 | Inverteblate      | Experimental | 50 110013 | LC50   | 0.2 mg/1   |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental48 hoursEC503.1 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental72 hoursEC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Green algaeExperimental72 hoursEC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   | 5 5 7                 |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxides       Green algae       Estimated       72 hours       NOEC       0.015 mg/l         Amines, C12-14-<br>alkyldimethyl, N-<br>oxides       308062-28-4       Green algae       Experimental       302 days       NOEC       0.42 mg/l         Amines, C12-14-<br>alkyldimethyl, N-<br>oxides       308062-28-4       Fathead minnow       Experimental       302 days       NOEC       0.42 mg/l         Amines, C12-14-<br>alkyldimethyl, N-<br>oxides       308062-28-4       Water flea       Experimental       21 days       NOEC       0.7 mg/l         Amines, C12-14-<br>alkyldimethyl, N-<br>oxides       308062-28-4       Bacteria       Experimental       16 hours       EC50       188.7 mg/l         Alkyldimethyl, N-<br>oxides       68411-30-3       Bacteria       Experimental       16 hours       NOEC       30 mg/l         Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts       68411-30-3       Bluegill       Experimental       96 hours       LC50       1.67 mg/l         Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts       68411-30-3       Green algae       Experimental       72 hours       ErC50       7.4 mg/l         Benzenesulfonic acid,<br>C10-13-alkyl       68411-30-3       Green algae       Experimental       72 hours       ErC50       <  |                       | 308062-28-4 | Water flea        | Experimental | 48 hours  | EC50   | 3.1 mg/l   |
| oxides   |                       | 500002 20 4 | Water nea         | Experimental | 40 110015 | LC50   | 5.1 mg/1   |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Green algaeEstimated72 hoursNOEC0.015 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC0.7 mg/lBenzenesulfonic acid,<br>clo1-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>clo1-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursEC501.67 mg/lBenzenesulfonic acid,<br>clo1-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursEC507.4 mg/lBenzenesulfonic acid,<br>clo1-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesSourceSourceSourceSourceAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC30 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>cerivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>cerivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>cotal salkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       | 308062-28-4 | Green algae       | Estimated    | 72 hours  | NOEC   | 0.015 mg/l |
| oxidesAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4<br>alkyldimethyl, N-<br>oxidesFathead minnow<br>alterExperimental<br>alkyldimethyl, N-<br>oxides302 days<br>alsone in the interval of the  |                       | 500002 20 1 | Green ungue       | Estimated    | /2 110015 | ROLE   | 0.010 mg/r |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Fathead minnowExperimental302 daysNOEC0.42 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>colorider alkyldimethyl, N-<br>oxides68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>colorider alkyldi<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>colorider alkyldi<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lC10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental48 hoursEC502.9 mg/l   |                       | 308062-28-4 | Fathead minnow    | Experimental | 302 days  | NOFC   | 0.42 mg/l  |
| oxidesAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental16 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       | 500002 20 4 | i atticad minitow | Experimental | 502 duys  | ROLE   | 0.42 mg/1  |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4Water fleaExperimental21 daysNOEC0.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesN-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       | 308062-28-4 | Water flea        | Experimental | 21 days   | NOEC   | 0.7 mg/l   |
| oxidescccccAmines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental48 hoursEC502.9 mg/l  |                       | 500002 20 1 | Water neu         | Experimental | 21 auys   | ROLE   | o., mg/i   |
| Amines, C12-14-<br>alkyldimethyl, N-<br>oxides308062-28-4BacteriaExperimental16 hoursEC50188.7 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental92 hoursLC501.67 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              |           |        |            |
| alkyldimethyl, N-<br>oxidesSectorSectorSectorSectorSectorSectorBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       | 308062-28-4 | Bacteria          | Experimental | 16 hours  | EC50   | 188 7 mg/l |
| oxidesoxidesoxidesoxidesoxidesBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       | 500002 20 1 | Bueteriu          | Experimental | ro nouis  | Less   | 1001, mg/l |
| Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BacteriaExperimental16 hoursNOEC30 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   | 5 5 7                 |             |                   |              |           |        |            |
| C10-13-alkyl<br>derivatives, sodium<br>saltsBluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       | 68411-30-3  | Bacteria          | Experimental | 16 hours  | NOEC   | 30 mg/l    |
| derivatives, sodium<br>saltsSolitionBluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              | 10 nourb  | 1.020  |            |
| saltscccccBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       |             |                   |              |           |        |            |
| Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3BluegillExperimental96 hoursLC501.67 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>C10-13-alkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              |           |        |            |
| C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       | 68411-30-3  | Bluegill          | Experimental | 96 hours  | LC50   | 1.67 mg/l  |
| derivatives, sodium<br>saltsderivatives, sodium<br>saltsGreen algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>c10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l   |                       |             |                   | 1            |           |        |            |
| saltsendendendendBenzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts68411-30-3Green algaeExperimental72 hoursErC507.4 mg/lBenzenesulfonic acid,<br>C10-13-alkyl68411-30-3Water fleaExperimental48 hoursEC502.9 mg/l  |                       |             |                   |              |           |        |            |
| C10-13-alkyl<br>derivatives, sodium<br>salts       Benzenesulfonic acid,<br>C10-13-alkyl       68411-30-3       Water flea       Experimental       48 hours       EC50       2.9 mg/l   |                       |             |                   |              |           |        |            |
| C10-13-alkyl<br>derivatives, sodium<br>salts       Benzenesulfonic acid,<br>C10-13-alkyl       68411-30-3       Water flea       Experimental       48 hours       EC50       2.9 mg/l   | Benzenesulfonic acid. | 68411-30-3  | Green algae       | Experimental | 72 hours  | ErC50  | 7.4 mg/l   |
| derivatives, sodium<br>salts     salts     local     local     local       Benzenesulfonic acid,<br>C10-13-alkyl     68411-30-3     Water flea     Experimental     48 hours     EC50     2.9 mg/l   | C10-13-alkyl          |             |                   |              |           |        |            |
| salts     Salts     Salts     Salts       Benzenesulfonic acid,<br>C10-13-alkyl     68411-30-3     Water flea     Experimental     48 hours     EC50     2.9 mg/l  | derivatives, sodium   |             |                   |              |           |        |            |
| C10-13-alkyl   | salts                 |             |                   |              |           |        |            |
| C10-13-alkyl   | Benzenesulfonic acid, | 68411-30-3  | Water flea        | Experimental | 48 hours  | EC50   | 2.9 mg/l   |
| derivatives, sodium  | C10-13-alkyl          |             |                   |              |           |        | -          |
|  | derivatives, sodium   |             |                   |              |           |        |            |

| salts   |            |                                  |              |          |       |             |
|---|------------|----------------------------------|--------------|----------|-------|-------------|
| Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium  | 68411-30-3 | Green algae                      | Experimental | 72 hours | NOEC  | 1.28 mg/l   |
| salts<br>Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>salts  | 68411-30-3 | Rainbow trout                    | Experimental | 72 days  | NOEC  | 0.23 mg/l   |
| Benzenesulfonic acid,<br>C10-13-alkyl<br>derivatives, sodium<br>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<br>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-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Activated sludge                 | Experimental | 3 hours  | NOEC  | 0.91 mg/l   |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Bacteria                         | Experimental | 16 hours | EC50  | 5.7 mg/l    |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Copepod                          | Experimental | 48 hours | EC50  | 0.007 mg/l  |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Diatom                           | Experimental | 72 hours | ErC50 | 0.0199 mg/l |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Green algae                      | Experimental | 72 hours | ErC50 | 0.027 mg/l  |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Rainbow trout                    | Experimental | 96 hours | LC50  | 0.19 mg/l   |

| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Sheepshead<br>Minnow | Experimental | 96 hours | LC50 | 0.3 mg/l     |
|---|------------|----------------------|--------------|----------|------|--------------|
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Water flea           | Experimental | 48 hours | EC50 | 0.099 mg/l   |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Diatom               | Experimental | 48 hours | NOEC | 0.00049 mg/l |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Fathead minnow       | Experimental | 36 days  | NOEL | 0.02 mg/l    |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>6] (3:1) | 55965-84-9 | Green algae          | Experimental | 72 hours | NOEC | 0.004 mg/l   |
| reaction mass of: 5-<br>chloro-2-methyl-4-<br>isothiazolin-3-one [EC<br>no. 247-500-7]and 2-<br>methyl-2H-isothiazol-<br>3-one [EC no. 220-239-<br>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-<br>14-alkyl esters, sodium salts   | 85586-07-8  | Experimental<br>Biodegradation | 28 days  | BOD                               | 96 %BOD/ThO<br>D                           | OECD 301D - Closed bottle<br>test    |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts   | 931-534-0   | Experimental<br>Biodegradation | 28 days  | CO2 evolution                     | 80 %CO2<br>evolution/THC<br>O2 evolution   | OECD 301B - Modified<br>sturm or CO2 |
| Sodium<br>Laurylpolyethoxyethanol<br>Sulphate   | 68891-38-3  | Experimental<br>Biodegradation | 28 days  | Dissolv. Organic<br>Carbon Deplet | 100 %CO2<br>evolution/THC<br>O2 evolution  | EC C.4.C. CO2 Evolution<br>Test      |
| 1-Propanaminium, 3-amino-<br>N-(carboxymethyl)-N,N-<br>dimethyl-, N-(C8-18(even<br>numbered) and C18<br>unsaturated acyl) derivs.,<br>hydroxides, inner salts | 931-333-8   | Estimated<br>Biodegradation    | 28 days  | CO2 evolution                     | 87.2 %CO2<br>evolution/THC<br>O2 evolution |                                      |
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | 308062-28-4 | Experimental<br>Biodegradation | 28 days  | Demanda química<br>de oxigênio    | 90 %CO2<br>evolution/THC<br>O2 evolution   | OECD 301B - Modified<br>sturm or CO2 |
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | 308062-28-4 | Experimental<br>Biodegradation | 21 days  | Demanda química<br>de oxigênio    | 75 %CO2<br>evolution/THC<br>O2 evolution   | OECD 303A - Simulated<br>Aerobic     |
| Amines, C12-14-<br>alkyldimethyl, N-oxides  | 308062-28-4 | Experimental<br>Hydrolysis     |          | Hydrolytic half-life<br>(pH 7)    | >1 years (t 1/2)                           | OECD 111 Hydrolysis func<br>of pH    |

| Benzenesulfonic acid, C10-<br>13-alkyl derivatives, sodium salts   |            | Experimental<br>Biodegradation          | 29 days | CO2 evolution                  |   | OECD 301B - Modified<br>sturm or CO2 |
|--|------------|---|---------|--------------------------------|---|--------------------------------------|
| Sodium chloride  | 7647-14-5  | Data not availbl-<br>insufficient       | N/A     | N/A                            | N/A   | N/A                                  |
| reaction mass of: 5-chloro-<br>2-methyl-4-isothiazolin-3-<br>one [EC no. 247-500-7]and<br>2-methyl-2H-isothiazol-3-<br>one [EC no. 220-239-6]<br>(3:1) | 55965-84-9 | Analogous<br>Compound<br>Biodegradation | 29 days | CO2 evolution                  | 62 %CO2<br>evolution/THC<br>O2 evolution<br>(does not pass<br>10-day<br>window) | OECD 301B - Modified<br>sturm or CO2 |
| reaction mass of: 5-chloro-<br>2-methyl-4-isothiazolin-3-<br>one [EC no. 247-500-7]and<br>2-methyl-2H-isothiazol-3-<br>one [EC no. 220-239-6]<br>(3:1) | 55965-84-9 | Experimental<br>Hydrolysis              |         | Hydrolytic half-life<br>(pH 7) | > 60 days (t<br>1/2)  |                                      |

# 12.3 : Bioaccumulative potential

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

## 12.4. Mobility in soil

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

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

## 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<br>(ADR) | Air Transport (IATA) | Marine Transport<br>(IMDG) |
|--------------------------------|---------------------------|----------------------|----------------------------|
| 14.1 UN number or ID<br>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.   |
|  | Please refer to the other<br>sections of the SDS for<br>further information. | Please refer to the other<br>sections of the SDS for further<br>information. | Please refer to the other<br>sections of the SDS for<br>further information. |
| 14.7 Marine Transport in<br>bulk according to IMO<br>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 55965-84-9

 3-one [EC no. 247-500-7] and 2-methyl-2H 55965-84-9

 isothiazol-3-one [EC no. 220-239-6] (3:1)

 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 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