Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006) as amended by Regulation (EU) 2020/878

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

1.1. Product identifier
3M™ Perfect-It™ Boat Wash, 09034, 09035

Product Identification Numbers

UU-0063-2315-6	UU-0063-2316-4
7100094559	7100094558

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

Identified uses
Marine

1.3. Details of the supplier of the safety data sheet

Address:	3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone:	+353 1 280 3555
E Mail:	ner-productstewardship@mmm.com
Website:	www.3M.com

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

SECTION 2: Hazard identification

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

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

CLASSIFICATION:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

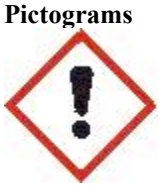
For full text of H phrases, see Section 16.

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

SIGNAL WORD
WARNING.

Symbols
GHS07 (Exclamation mark) |

Pictograms



Ingredients:

Ingredient	Identifier(s)	EC No.	% by Wt
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	911-418-6	< 0.0025

HAZARD STATEMENTS:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Prevention:

P280	Wear protective gloves and eye protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

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 (not required on industrial label): 5-15%: Anionic surfactant. <5%: Amphoteric surfactant.
Contains: Perfumes, Alpha-isomethyl ionone, Cinnamyl alcohol, Cinnamal, Mixture of Methylchloroisothiazolinone and Methylisothiazolinone (3:1).

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	80 - 100	Substance not classified as hazardous
Sodium Chloride	(CAS-No.) 7647-14-5 (EC-No.) 231-598-3	1 - 5	Substance not classified as hazardous
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4	1 - 5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	(EC-No.) 931-333-8	< 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	(EC-No.) 931-534-0	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium Laurylpolyethoxyethanol Sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8	1 - 5	Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Eye Dam. 1, H318
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	(CAS-No.) 68411-30-3 (EC-No.) 270-115-0	< 3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Amines, C12-14-alkyldimethyl, N-oxides	(CAS-No.) 308062-28-4 (EC-No.) 931-292-6	< 3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411
Cinnamic Aldehyde	(CAS-No.) 104-55-2 (EC-No.) 203-213-9	< 0.004	Skin Sens. 1A, H317 Eye Irrit. 2, H319

			Aquatic Chronic 3, H412
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	(CAS-No.) 55965-84-9 (EC-No.) 911-418-6	< 0.0025	EUH071 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=100 Aquatic Chronic 1, H410,M=100 Nota B Acute Tox. 2, H330 Acute Tox. 2, H310

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

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	(EC-No.) 931-333-8	(C >= 10%) Eye Dam. 1, H318 (4% =< C < 10%) Eye Irrit. 2, H319
Cinnamic Aldehyde	(CAS-No.) 104-55-2 (EC-No.) 203-213-9	(C >= 0.01%) Skin Sens. 1A, H317
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	(CAS-No.) 55965-84-9 (EC-No.) 911-418-6	(C >= 0.6%) Skin Corr. 1C, H314 (0.06% =< C < 0.6%) Skin Irrit. 2, H315 (C >= 0.6%) Eye Dam. 1, H318 (0.06% =< C < 0.6%) Eye Irrit. 2, H319 (C >= 0.0015%) Skin Sens. 1A, H317
Sodium Laurylpolyethoxyethanol Sulphate	(CAS-No.) 68891-38-3 (EC-No.) 500-234-8	(C >= 10%) Eye Dam. 1, H318 (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 (C >= 38%) Eye Dam. 1, H318 (5% =< C < 38%) Eye Irrit. 2, H319
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4	(C >= 20%) Eye Dam. 1, H318 (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). Allergic skin reaction (redness, swelling, blistering, and itching). 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
Use a fire fighting agent suitable for the surrounding fire.

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

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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat.

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 16321

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

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

Applicable Norms/Standards

Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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
Half facepiece or full facepiece supplied-air respirator

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
Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Bright Yellow
Odor	Fruity Odor, Pleasant Odor, Sweet Clean
Odour threshold	*No data available.*
Melting point/freezing point	*Not applicable.*
Boiling point/boiling range	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Flash point	No flash point
Autoignition temperature	*Not applicable.*
Decomposition temperature	*No data available.*
pH	7.8 - 8.8
Kinematic Viscosity	144 mm^2/sec
Water solubility	Complete
Solubility- non-water	Complete
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	*No data available.*
Density	1 g/cm3
Relative density	0.995 - 1.042 [*Ref Std:*WATER=1]
Relative Vapour Density	*No data available.*
Particle Characteristics	*Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Molecular weight	*Not applicable.*

Percent volatile	89.8 % weight [*Test Method:*Estimated]

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
Heat.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not specified.
Carbon dioxide.	Not specified.
Irritant vapours or gases.	Not specified.

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. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Dermal	Rat	LD50 > 2,000 mg/kg
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Ingestion	Rat	LD50 1,800 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Dermal	Rabbit	LD50 6,300 mg/kg
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 52 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Rat	LD50 2,079 mg/kg
Sodium Laurylpolyethoxyethanol Sulphate	Dermal	Rat	LD50 > 2,000 mg/kg
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Rat	LD50 2,870 mg/kg
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Dermal	Rat	LD50 > 2,000 mg/kg
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Ingestion	Rat	LD50 1,080 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Dermal	Rat	LD50 > 2,000 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Ingestion	Rat	LD50 > 1,500 mg/day
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	Rat	LD50 1,064 mg/kg
Amines, C12-14-alkyldimethyl, N-oxides	Dermal	similar compounds	LD50 > 2,000 mg/kg
Sodium Chloride	Dermal	Rabbit	LD50 > 10,000 mg/kg
Sodium Chloride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 10.5 mg/l
Sodium Chloride	Ingestion	Rat	LD50 3,550 mg/kg
Cinnamic Aldehyde	Dermal	Rabbit	LD50 > 2,000 mg/kg
Cinnamic Aldehyde	Ingestion	Rat	LD50 2,200 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Rabbit	LD50 87 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Rabbit	Irritant
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Irritant
Sodium Laurylpolyethoxyethanol Sulphate	Rabbit	Irritant
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Rabbit	Irritant
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Rabbit	Minimal irritation
Amines, C12-14-alkyldimethyl, N-oxides	Rabbit	Irritant
Sodium Chloride	Rabbit	No significant irritation
Cinnamic Aldehyde	Human	Mild irritant
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Rabbit	Corrosive
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Rabbit	Corrosive
Sodium Laurylpolyethoxyethanol Sulphate	Rabbit	Corrosive
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Rabbit	Corrosive
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Rabbit	Corrosive
Amines, C12-14-alkyldimethyl, N-oxides	Rabbit	Corrosive
Sodium Chloride	Rabbit	Mild irritant
Cinnamic Aldehyde	Human	Moderate irritant
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Guinea pig	Not classified
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Guinea pig	Not classified
Sodium Laurylpolyethoxyethanol Sulphate	Guinea pig	Not classified
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Guinea pig	Not classified
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Multiple animal species	Not classified
Amines, C12-14-alkyldimethyl, N-oxides	Guinea pig	Not classified
Cinnamic Aldehyde	Human and animal	Sensitising
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Human and animal	Not sensitising

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	In Vitro	Not mutagenic
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	In Vitro	Not mutagenic
Sodium Laurylpolyethoxyethanol Sulphate	In Vitro	Not mutagenic
Sodium Laurylpolyethoxyethanol Sulphate	In vivo	Not mutagenic
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	In Vitro	Not mutagenic
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	In vivo	Not mutagenic
Amines, C12-14-alkyldimethyl, N-oxides	In Vitro	Not mutagenic
Amines, C12-14-alkyldimethyl, N-oxides	In vivo	Not mutagenic
Sodium Chloride	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium Chloride	In vivo	Some positive data exist, but the data are not sufficient for classification
Cinnamic Aldehyde	In vivo	Not mutagenic

Cinnamic Aldehyde	In Vitro	Some positive data exist, but the data are not sufficient for classification
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	In vivo	Not mutagenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (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 and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Mouse	Not carcinogenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	Not classified for development	Mouse	NOAEL 2 mg/kg/day	during organogenesis
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	2 generation
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	Not classified for male reproduction	Rat	NOAEL 250 mg/kg/day	28 days
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	Not classified for development	Rat	NOAEL 25 mg/kg/day	during gestation
Cinnamic Aldehyde	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Laurylpolyethoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	similar health	NOAEL Not available	

Sulphate			classification	hazards		
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Amines, C12-14-alkyldimethyl, N-oxides	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Ingestion	endocrine system | hematopoietic system | liver | immune system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 195 mg/kg/day	2 years
Sodium Laurylpolyethoxyethanol Sulphate	Dermal	skin | heart | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Mouse	NOAEL 6.91 mg/day	90 days
Sodium Laurylpolyethoxyethanol Sulphate	Ingestion	blood | eyes	Not classified	Rat	NOAEL 225 mg/kg/day	90 days
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Ingestion	heart | endocrine system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
Amines, C12-14-alkyldimethyl, N-oxides	Dermal	skin	Not classified	Mouse	NOAEL 6.2 mg/kg/day	91 days
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 88 mg/kg/day	90 days
Amines, C12-14-alkyldimethyl, N-oxides	Ingestion	heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | muscles | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 440 mg/kg/day	90 days
Sodium Chloride	Ingestion	blood | kidney and/or bladder | vascular system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,240 mg/kg/day	9 months
Sodium Chloride	Ingestion	nervous system |	Some positive data exist, but the	Rat	NOAEL	90 days

		eyes	data are not sufficient for classification		1,700 mg/kg/day	
Sodium Chloride	Ingestion	liver | respiratory system	Not classified	Rat	NOAEL 33 mg/kg/day	90 days
Cinnamic Aldehyde	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	16 weeks
Cinnamic Aldehyde	Ingestion	blood	Not classified	Rat	NOAEL 5,000 mg/kg/day	13 weeks
Cinnamic Aldehyde	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 227 mg/kg/day	12 weeks

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	Identifier(s)	Organism	Type	Exposure	Test endpoint	Test result
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Fathead minnow	Estimated	96 hours	LC50	1.11 mg/l
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Green algae	Estimated	72 hours	EC50	1.5 mg/l
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Water flea	Estimated	48 hours	EC50	1.9 mg/l
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and	931-333-8	Green algae	Estimated	72 hours	NOEC	0.3 mg/l

C18 unsaturated acyl) derivs., hydroxides, inner salts						
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Rainbow trout	Estimated	37 days	NOEC	0.135 mg/l
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Water flea	Estimated	21 days	NOEC	0.32 mg/l
Sodium Chloride	7647-14-5	Activated sludge	Experimental	N/A	NOEC	8,000 mg/l
Sodium Chloride	7647-14-5	Algae or other aquatic plants	Experimental	96 hours	EC50	2,430 mg/l
Sodium Chloride	7647-14-5	Bluegill	Experimental	96 hours	LC50	5,840 mg/l
Sodium Chloride	7647-14-5	Water flea	Experimental	48 hours	LC50	874 mg/l
Sodium Chloride	7647-14-5	Fathead minnow	Experimental	33 days	NOEC	252 mg/l
Sodium Chloride	7647-14-5	Water flea	Experimental	21 days	NOEC	314 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Bacteria	Experimental	16 hours	ErC50	>10,000 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Green algae	Experimental	72 hours	ErC50	27.7 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Water flea	Experimental	48 hours	EC50	7.2 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Zebra Fish	Experimental	96 hours	LC50	7.1 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Water flea	Analogous Compound	21 days	NOEC	0.27 mg/l
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Green algae	Experimental	72 hours	NOEC	0.95 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Diatom	Estimated	72 hours	EC50	1.97 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Zebra Fish	Estimated	96 hours	LC50	4.2 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Water flea	Experimental	48 hours	EC50	4.53 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Diatom	Estimated	72 hours	EC10	1.2 mg/l
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium	931-534-0	Water flea	Experimental	21 days	NOEC	2.4 mg/l

salts						
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Activated sludge	Analogous Compound	3 hours	EC50	135 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Green algae	Experimental	72 hours	ErC10	5.4 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Green algae	Experimental	72 hours	ErC50	>20 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Rainbow trout	Experimental	96 hours	LC50	3.6 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Fathead minnow	Analogous Compound	42 days	NOEC	1.4 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Water flea	Analogous Compound	7 days	NOEC	0.88 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Green algae	Estimated	72 hours	ErC50	0.143 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Fathead minnow	Experimental	96 hours	LC50	2.67 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Invertebrate	Experimental	96 hours	EC50	8.2 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Water flea	Experimental	48 hours	EC50	3.1 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Green algae	Estimated	72 hours	NOEC	0.015 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Fathead minnow	Experimental	302 days	NOEC	0.42 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Water flea	Experimental	21 days	NOEC	0.7 mg/l
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Bacteria	Experimental	16 hours	EC50	188.7 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Bacteria	Experimental	16 hours	NOEC	30 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Bluegill	Experimental	96 hours	LC50	1.67 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Green algae	Experimental	72 hours	ErC50	7.4 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Water flea	Experimental	48 hours	EC50	2.9 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Green algae	Experimental	72 hours	NOEC	1.28 mg/l

Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Rainbow trout	Experimental	72 days	NOEC	0.23 mg/l
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Water flea	Experimental	21 days	NOEC	1.18 mg/l
Cinnamic Aldehyde	104-55-2	Green algae	Experimental	72 hours	ErC50	6.87 mg/l
Cinnamic Aldehyde	104-55-2	Rainbow trout	Experimental	96 hours	LC50	1.67 mg/l
Cinnamic Aldehyde	104-55-2	Water flea	Experimental	48 hours	EC50	3.21 mg/l
Cinnamic Aldehyde	104-55-2	Green algae	Experimental	72 hours	NOEC	2 mg/l
Cinnamic Aldehyde	104-55-2	Water flea	Experimental	21 days	EC50	0.402 mg/l
Cinnamic Aldehyde	104-55-2	Activated sludge	Experimental	3 hours	EC50	71 mg/l
Cinnamic Aldehyde	104-55-2	Cucumber	Experimental	14 days	EC50	1.5 mg/kg (Wet Weight)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Activated sludge	Experimental	3 hours	NOEC	0.91 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Bacteria	Experimental	16 hours	EC50	5.7 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Copepod	Experimental	48 hours	EC50	0.007 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Water flea	Experimental	21 days	NOEC	0.004 mg/l

12.2. Persistence and degradability

Material	Identifier(s)	Test type	Duration	Study Type	Test result	Protocol
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	931-333-8	Estimated Biodegradation	28 days	CO2 evolution	87.2 %CO2 evolution/THCO2 evolution	
Sodium Chloride	7647-14-5	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Biodegradation	28 days	BOD	96 %BOD/ThOD	OECD 301D - Closed bottle test
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Experimental Biodegradation	28 days	Demanda química de oxigênio	90 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Experimental Biodegradation	21 days	Demanda química de oxigênio	75 %CO2 evolution/THCO2 evolution	OECD 303A - Simulated Aerobic
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Experimental Biodegradation	29 days	CO2 evolution	85 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Cinnamic Aldehyde	104-55-2	Experimental Biodegradation	28 days	CO2 evolution	100 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Analogous Compound Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	> 60 days (t 1/2)	

12.3 : Bioaccumulative potential

Material	Identifier(s)	Test type	Duration	Study Type	Test result	Protocol
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-	931-333-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts						
Sodium Chloride	7647-14-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Sodium Laurylpolyethoxyethanol Sulphate	68891-38-3	Experimental Bioconcentration		Log Kow	0.3	OECD 123 log Kow slow stir
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	931-534-0	Estimated Bioconcentration		Log Kow	-1.3	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Bioconcentration		Log Kow	0.78	OECD 123 log Kow slow stir
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Estimated Bioconcentration		Log Kow	<2.69	
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Experimental BCF - Fish	192 hours	Bioaccumulation factor	2-987	OECD305-Bioconcentration
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Experimental Bioconcentration		Log Kow	1.4	OECD 123 log Kow slow stir
Cinnamic Aldehyde	104-55-2	Experimental Bioconcentration		Log Kow	2.107	OECD 117 log Kow HPLC method
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	54	OECD305-Bioconcentration
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Analogous Compound Bioconcentration		Log Kow	0.4	

12.4. Mobility in soil

Material	Identifier(s)	Test type	Study Type	Test result	Protocol
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Mobility in Soil	Koc	316-1567 l/kg	
Amines, C12-14-alkyldimethyl, N-oxides	308062-28-4	Experimental Mobility in Soil	Koc	1,525 l/kg	OECD 106 Adsp-Desb Batch Equil
Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	68411-30-3	Experimental Mobility in Soil	Koc	2,500 l/kg	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Experimental Mobility in Soil	Koc	10 l/kg	OECD 106 Adsp-Desb Batch Equil

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

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

SECTION 13: Disposal considerations

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

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

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC 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)
070601* Aqueous washing liquids and mother liquors

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 - UN Number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.

ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

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

SECTION 15: Regulatory information

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

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

Ingredient	Identifier(s)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9

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

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012
No chemicals listed

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out for this substance/mixture 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.

List of Relevant Notas

Nota B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid … %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Revision information:
CLP: Ingredient table information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 9: Vapour pressure value information was added.
Section 9: Vapour pressure value information was deleted.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.

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