

## 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

3M<sup>™</sup> Perfect-It<sup>™</sup> Random Orbital Compound PN34130E, PN34131E, PN34132E

Product Identificati	on Numbers	
UU-0115-2747-8	UU-0115-2823-7	UU-0115-2828-6
7100265273	7100264084	7100264095

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

### **Identified uses**

Abrasive Product

### 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

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.

The aspiration hazard classification is not required due to the product's viscosity.

### **CLASSIFICATION:**

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	CAS Nbr	EC No.	% by Wt
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	55965-84-9	911-418-6	< 0.0015
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride		701-048-1	<= 0.5
maleic anhydride	108-31-6	203-571-6	<= 0.001

### HAZARD STATEMENTS:

11010	<b>11</b> 1 1 1 1
H317	May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

<b>Prevention:</b>
P280E

Wear protective gloves.

#### **Response:** P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

### SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:EUH066Repeated exposure may cause skin dryness or cracking.

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

### 2.3. Other hazards

None known.

### 3M<sup>™</sup> Perfect-It<sup>™</sup> Random Orbital Compound PN34130E, PN34131E, PN34132E

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	50 - 60	Substance not classified as hazardous
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	(EC-No.) 923-037-2	15 - 20	Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066
Aluminium Oxide (non-fibrous)	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	5 - 15	Substance with a national occupational exposure limit
reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC-No.) 911-418-6	< 0.0015	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
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(EC-No.) 926-141-6	1 - 5	Asp. Tox. 1, H304 EUH066
White mineral oil (petroleum)	(CAS-No.) 8042-47-5 (EC-No.) 232-455-8	1 - 5	Asp. Tox. 1, H304
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride		<= 0.5	Skin Sens. 1B, H317
Glycerol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	< 3	Substance with a national occupational exposure limit
Castor oil	(CAS-No.) 8001-79-4 (EC-No.) 232-293-8	< 2	Substance not classified as hazardous
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8	< 2	Substance with a national occupational exposure limit
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	<= 0.001	EUH071 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334

	Skin Sens. 1A, H317 STOT RE 1, H372
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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
	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	(C >= 0.001%) Skin Sens. 1A, H317
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)	(EC-No.) 911-418-6	$(C \ge 0.6\%)$ 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

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.

### Eve contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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: Allergic skin reaction (redness, swelling, blistering, and itching). Toxic by eye contact.

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

## **SECTION 5: Fire-fighting measures**

### 5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

### 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

### 5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## **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 an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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

Avoid breathing of dust created by cutting, sanding, grinding or machining. 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

### 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**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Triethanolamine	102-71-6	Ireland OELs	TWA(8 hours):5 mg/m3	
maleic anhydride	108-31-6	Ireland OELs	TWA(inhalable fraction and	
Aluminium Quida (non fibrous)	1244 20 1	Iroland OEL a	vapour)(8 hours):0.01 ppm	
Aluminium Oxide (non-fibrous)	1344-28-1	Ireland OELs	TWA(Total inhalable dust)(8	

			hours):10 mg/m3;TWA(as respirable dust)(8 hours):4 mg/m3
DUST, INERT OR NUISANCE	56-81-5	Ireland OELs	TWA(Total inhalable dust)(8
			hours):10 mg/m3;TWA(as
			respirable dust)(8 hours):4
			mg/m3
Mineral oils, highly-refined oils	8042-47-5	Ireland OELs	TWA(inhalable fraction)(8
			hours):5 mg/m3
Ireland OELs : Ireland. OELs			, <b>-</b>
TWA: Time-Weighted-Average			

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

### **Biological limit values**

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

**Recommended monitoring procedures:**Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

### 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

None required.

### 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.

Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Butyl rubber.	>.3	=>8 hours
Fluoroelastomer	>.3	=>8 hours
Nitrile rubber.	>.3	=>8 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Butyl rubber Apron – Nitrile

### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

. .

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

### Applicable Norms/Standards

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

## **SECTION 9: Physical and chemical properties**

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

Physical state	Liquid.
Specific Physical Form:	Emulsion
Colour	White
Odor	No data available.
Odour threshold	No data available.
Melting point/freezing point	No data available.
Boiling point/boiling range	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Flash point	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
рН	8.2 - 8.7
Kinematic Viscosity	No data available.
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density	0.995 - 1.02 g/cm3
Relative density	No data available.
Relative Vapour Density	No data available.

### 9.2. Other information

### 9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate

No data available. 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.

Stable

### **10.3 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

### **10.4 Conditions to avoid**

Heat.

### **10.5 Incompatible materials**

Strong acids. Strong bases. Strong oxidising agents.

### 10.6 Hazardous decomposition products

**Substance** 

Hydrocarbons. Carbon monoxide Carbon dioxide. Condition Not specified. Not specified. 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. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

### Skin contact

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

### Eye contact

Contact with the eyes during product use is not expected to result in significant irritation. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation- Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Inhalation-	Professio	LC50 estimated to be 20 - 50 mg/l

	Vapour	nal judgeme nt	
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Ingestion	Rat	LD50 > 5,000 mg/kg
Aluminium Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminium Oxide (non-fibrous)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminium Oxide (non-fibrous)	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Inhalation- Vapour	Professio nal judgeme nt	LC50 estimated to be 20 - 50 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Ingestion	Rat	LD50 > 5,000 mg/kg
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be $> 5,000 \text{ mg/kg}$
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
Castor oil	Dermal		LD50 estimated to be > 5,000
Castor oil	Ingestion		LD50 estimated to be > 5,000
Triethanolamine	Dermal	Rabbit	LD50 > 2,000  mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Ingestion	Rat	LD50 > 5,385 mg/kg
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Dermal	similar health hazards	LD50 estimated to be > 5,000 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] (3:1)	Dermal	Rabbit	LD50 87 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] (3:1)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Ingestion	Rat	LD50 40 mg/kg
maleic anhydride	Dermal	Rabbit	LD50 2,620 mg/kg
maleic anhydride	Ingestion	Rat	LD50 1,030 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Rabbit	Mild irritant
Aluminium Oxide (non-fibrous)	Rabbit	No significant irritation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Rabbit	Minimal irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
Glycerol	Rabbit	No significant irritation
Castor oil	Human	Minimal irritation
Triethanolamine	Rabbit	Minimal irritation
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Rabbit	No significant irritation
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Rabbit	Corrosive
maleic anhydride	Human	Corrosive
	and	
	animal	

## Serious Eye Damage/Irritation

Name	Species	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Rabbit	Mild irritant
Aluminium Oxide (non-fibrous)	Rabbit	No significant irritation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Rabbit	Mild irritant
White mineral oil (petroleum)	Rabbit	Mild irritant
Glycerol	Rabbit	No significant irritation
Castor oil	Rabbit	Mild irritant
Triethanolamine	Rabbit	Mild irritant
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Rabbit	No significant irritation
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Rabbit	Corrosive
maleic anhydride	Rabbit	Corrosive

## Skin Sensitisation

Name	Species	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Guinea	Not classified
	pig	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Guinea	Not classified
	pig	
White mineral oil (petroleum)	Guinea	Not classified
	pig	
Glycerol	Guinea	Not classified
	pig	
Castor oil	Human	Not classified
Triethanolamine	Human	Not classified
Condensation products of triethanolamine with addition products of fatty acids,	Mouse	Sensitising
C18 (unsaturated) alkyl with maleic anhydride		
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and	Human	Sensitising
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	and	
	animal	
maleic anhydride	Multiple	Sensitising
	animal	
	species	

### Photosensitisation

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

## **Respiratory Sensitisation**

Name	Species	Value
maleic anhydride	Human	Sensitising

### Germ Cell Mutagenicity

Name	Route	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	In Vitro	Not mutagenic
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	In vivo	Not mutagenic
Aluminium Oxide (non-fibrous)	In Vitro	Not mutagenic
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	In Vitro	Not mutagenic
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	In vivo	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
Castor oil	In Vitro	Not mutagenic
Castor oil	In vivo	Not mutagenic
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic

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	1	
Condensation products of triethanolamine with addition products of fatty acids,	In Vitro	Not mutagenic
C18 (unsaturated) alkyl with maleic anhydride		-
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and	In vivo	Not mutagenic
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and	In Vitro	Some positive data exist, but the data are not
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		sufficient for classification
maleic anhydride	In vivo	Not mutagenic
maleic anhydride	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not	Not	Not carcinogenic
	specified.	available	
Aluminium Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2%	Not	Not	Not carcinogenic
aromatics	specified.	available	
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Triethanolamine	Dermal	Multiple	Not carcinogenic
		animal	
		species	
Triethanolamine	Ingestion	Mouse	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.	Dermal	Mouse	Not carcinogenic
247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]			
(3:1)			
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.	Ingestion	Rat	Not carcinogenic
247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]			
(3:1)			

## **Reproductive Toxicity**

### **Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	premating & during gestation
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	28 days
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Not specified.	Not classified for development	Rat	NOAEL Not available	during gestation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not specified.	Not classified for female reproduction	Rat	NOAEL Not available	1 generation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not specified.	Not classified for male reproduction	Rat	NOAEL Not available	1 generation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not specified.	Not classified for development	Rat	NOAEL Not available	1 generation
White mineral oil (petroleum)	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL	2 generation

				2,000 mg/kg/day	
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	gestation into lactation
reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220- 239-6] (3:1)	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220- 239-6] (3:1)	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220- 239-6] (3:1)	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
maleic anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for development	Rat	NOAEL 140 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
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
maleic anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	

## Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Aluminium Oxide (non- fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminium Oxide (non- fibrous)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
White mineral oil (petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	liver   immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerol	Inhalation	respiratory system   heart   liver   kidney	Not classified	Rat	NOAEL 3.91 mg/l	14 days

		and/or bladder				
Glycerol	Ingestion	endocrine system   hematopoietic system   liver   kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Castor oil	Ingestion	heart   hematopoietic system   liver	Not classified	Rat	NOAEL 4,800 mg/kg/day	13 weeks
Castor oil	Ingestion	kidney and/or bladder	Not classified	Mouse	NOAEL 13,000 mg/kg/day	13 weeks
Triethanolamine	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
Triethanolamine	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
Triethanolamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
Triethanolamine	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	Ingestion	hematopoietic system   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	35 days
maleic anhydride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
maleic anhydride	Inhalation	endocrine system   hematopoietic system   nervous system   kidney and/or bladder   heart   liver   eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
maleic anhydride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
maleic anhydride	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 250 mg/kg/day	183 days
maleic anhydride	Ingestion	heart   nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
maleic anhydride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
maleic anhydride	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
maleic anhydride	Ingestion	skin   endocrine system   immune system   eyes   respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

## Aspiration Hazard

Name	Value
Hydrocarbons, C10-C12, isoalkanes, <2% aromatics	Aspiration hazard
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Aspiration hazard
White mineral oil (petroleum)	Aspiration hazard

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
Hydrocarbons, C10- C12, isoalkanes, <2% aromatics	923-037-2	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Hydrocarbons, C10- C12, isoalkanes, <2% aromatics	923-037-2	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
Hydrocarbons, C10- C12, isoalkanes, <2% aromatics	923-037-2	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Hydrocarbons, C10- C12, isoalkanes, <2% aromatics	923-037-2	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Hydrocarbons, C10- C12, isoalkanes, <2% aromatics	923-037-2	Water flea	Experimental	21 days	NOEL	1 mg/l
Aluminium Oxide (non-fibrous)	1344-28-1	N/A	Experimental	96 hours	LC50	>100 mg/l
Aluminium Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminium Oxide (non-fibrous)	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminium Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2- methyl-2H-isothiazol- 3-one [EC no. 220-239- 6] (3:1)	55965-84-9	Activated sludge	Experimental	3 hours	NOEC	0.91 mg/l
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2- methyl-2H-isothiazol- 3-one [EC no. 220-239- 6] (3:1)	55965-84-9	Bacteria	Experimental	16 hours	EC50	5.7 mg/l
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2- methyl-2H-isothiazol- 3-one [EC no. 220-239- 6] (3:1)	55965-84-9	Copepod	Experimental	48 hours	EC50	0.007 mg/l

reaction mass of: 5- chloro-2-methyl-4-	55965-84-9	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
isothiazolin-3-one [EC no. 247-500-7]and 2- methyl-2H-isothiazol- 3-one [EC no. 220-239-						
6] (3:1)	550(5, 94, 0	C 1		72.1	E 050	0.027 //
reaction mass of: 5-	55965-84-9	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
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)						
reaction mass of: 5-	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
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)	550/5 04 0			0.61	1.050	
reaction mass of: 5-	55965-84-9	Sheepshead	Experimental	96 hours	LC50	0.3 mg/l
chloro-2-methyl-4- isothiazolin-3-one [EC		Minnow				
no. 247-500-7]and 2-						
methyl-2H-isothiazol-						
3-one [EC no. 220-239-						
6] (3:1)						
reaction mass of: 5-	55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
chloro-2-methyl-4-			r			
isothiazolin-3-one [EC						
no. 247-500-7]and 2-						
methyl-2H-isothiazol-						
3-one [EC no. 220-239-						
6] (3:1)						
reaction mass of: 5-	55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
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)						
reaction mass of: 5-	55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l
chloro-2-methyl-4-			r			5
isothiazolin-3-one [EC						
no. 247-500-7]and 2-						
methyl-2H-isothiazol-						
3-one [EC no. 220-239-						
6] (3:1)	550(5.04.0		<b>D</b>	70.1	NOEG	
reaction mass of: 5-	55965-84-9	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
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)						
reaction mass of: 5-	55965-84-9	Water flea	Experimental	21 days	NOEC	0.004 mg/l
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)	701 049 1	A - 4 - 4 1 1 1	Enn al 1	2 h -	EC50	> 1.000 //
Condensation products of triethanolamine with	701-048-1	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
addition products of						
fatty acids, C18						
(unsaturated) alkyl with						
maleic anhydride						
J						1

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Condensation products of triethanolamine with	701-048-1	Green algae	Experimental	72 hours	EL50	105 mg/l
addition products of						
fatty acids, C18						
(unsaturated) alkyl with maleic anhydride						
Condensation products	701-048-1	Rainbow trout	Experimental	96 hours	No tox obs at lmt	>100 mg/l
of triethanolamine with	/01-040-1	Ramoow trout	Experimental	50 nours	of water sol	> 100 mg/1
addition products of						
fatty acids, C18						
(unsaturated) alkyl with						
maleic anhydride						
Condensation products	701-048-1	Water flea	Experimental	48 hours	No tox obs at lmt	>100 mg/l
of triethanolamine with					of water sol	
addition products of fatty acids, C18						
(unsaturated) alkyl with						
maleic anhydride						
Condensation products	701-048-1	Green algae	Experimental	72 hours	EL10	40 mg/l
of triethanolamine with			1			
addition products of						
fatty acids, C18						
(unsaturated) alkyl with						
maleic anhydride	026 141 6	Carran 1	Europei (1	72 h	EL 50	> 1.000 m /l
Hydrocarbons, C11- C14, n-alkanes,	926-141-6	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons, C11-	926-141-6	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
C14, n-alkanes,	201110		Enperimental	y o nouis	LLCO	1,000 mg/1
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons, C11-	926-141-6	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
C14, n-alkanes,						
isoalkanes, cyclics,						
<2% aromatics Hydrocarbons, C11-	926-141-6	Green algae	E	72 hours	NOEL	1,000 mg/l
C14, n-alkanes,	920-141-0	Green algae	Experimental	72 nours	NUEL	1,000 mg/1
isoalkanes, cyclics,						
<2% aromatics						
White mineral oil	8042-47-5	Water flea	Analogous	48 hours	EL50	>100 mg/l
(petroleum)			Compound			C C
White mineral oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
(petroleum)						
White mineral oil	8042-47-5	Green algae	Analogous	72 hours	NOEL	100 mg/l
(petroleum)	0.0.40.45.5		Compound		NOR	100 //
White mineral oil	8042-47-5	Water flea	Analogous	21 days	NOEL	>100 mg/l
(petroleum)	56-81-5	Destaria	Compound Experimental	16 hours	NOEC	10,000 mg/l
Glycerol	50-81-5	Bacteria	Experimental	16 nours	NOEC	10,000 mg/1
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Giyeeioi	50-01-5	Ramoow trout	Experimental	50 110013	LCJU	54,000 mg/1
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Giyeeror	50 01 5	Water neu	Experimental	io nouis	1000	1,755 mg/1
Castor oil	8001-79-4	Bacteria	Analogous	16 hours	NOEC	10,000 mg/l
			Compound			, ,
Castor oil	8001-79-4	Zebra Fish	Analogous	96 hours	LC50	>100 mg/l
			Compound			
Triethanolamine	102-71-6	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Triethanolamine	102-71-6	Fathead minnow	Experimental	96 hours	LC50	11,800 mg/l
TT: (1 1 )	100.71 (	0 1		70.1	F 050	<b>510</b> //
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC50	512 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	48 hours	EC50	609.98 mg/l
	102-/1-0		Experimental		10.50	007.70 mg/1
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC10	26 mg/l
				. = 110010		
	1	1		ı		

Triethanolamine	102-71-6	Water flea	Experimental	21 days	NOEC	16 mg/l	
maleic anhydride	108-31-6	Bacteria	Experimental	18 hours	EC10	44.6 mg/l	
maleic anhydride	108-31-6	Rainbow trout	Experimental	96 hours	LC50	75 mg/l	
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC50	74.4 mg/l	
maleic anhydride	108-31-6	Water flea	Hydrolysis Product	48 hours	EC50	93.8 mg/l	
maleic anhydride	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l	
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC10	11.8 mg/l	

## 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C10-C12,	923-037-2	Experimental	28 days	BOD	31.3 %BOD/Th	OECD 301F - Manometric
isoalkanes, <2% aromatics		Biodegradation			OD	respirometry
Aluminium Oxide (non- fibrous)	1344-28-1	Data not availbl- insufficient	N/A	N/A	N/A	N/A
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	55965-84-9	Analogous Compound Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	55965-84-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	> 60 days (t 1/2)	
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	701-048-1	Experimental Biodegradation	28 days	BOD	23 %BOD/ThO D	OECD 301F - Manometric respirometry
Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Experimental Biodegradation	28 days	BOD	69 %BOD/ThO D	OECD 301F - Manometric respirometry
White mineral oil (petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThO D	OECD 301C - MITI test (I)
Castor oil	8001-79-4	Analogous Compound Biodegradation	28 days	BOD	64 %BOD/ThO D	OECD 301D - Closed bottle test
Triethanolamine	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 %removal of DOC	similar to OECD 301E
maleic anhydride	108-31-6	Hydrolysis product Biodegradation	25 days	CO2 evolution	>90 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
maleic anhydride	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	0.37 minutes (t 1/2)	

## 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C10-C12,	923-037-2	Estimated		Log Kow	> 4	
isoalkanes, <2% aromatics		Bioconcentration				
Aluminium Oxide (non-	1344-28-1	Data not available	N/A	N/A	N/A	N/A
fibrous)		or insufficient 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)	55965-84-9	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	54	OECD305-Bioconcentration
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	55965-84-9	Analogous Compound Bioconcentration		Log Kow	0.4	
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	701-048-1	Experimental Bioconcentration		Log Kow	<1	OECD 117 log Kow HPLC method
Hydrocarbons, C11-C14, n- alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	
Castor oil	8001-79-4	Modeled Bioconcentration		Bioaccumulation factor	7.4	Catalogic™
Triethanolamine	102-71-6	Experimental BCF - Fish	42 days	Bioaccumulation factor	<3.9	similar to OECD 305
maleic anhydride	108-31-6	Experimental Bioconcentration		Log Kow	-2.61	OECD 107 log Kow shke flsk mtd

### 12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin-3- one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)	55965-84-9	Experimental Mobility in Soil	Кос	10 l/kg	OECD 106 Adsp-Desb Batch Equil
Condensation products of triethanolamine with addition products of fatty acids, C18 (unsaturated) alkyl with maleic anhydride	701-048-1	Experimental Mobility in Soil	Кос	<316 l/kg	OECD 121 Estim. of Koc by HPLC
Glycerol	56-81-5	Estimated Mobility in Soil	Кос	<1 l/kg	Episuite™

### 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.

## **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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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)

120109\* Machining emulsions and solutions free of halogens

### **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

Carcinogenicity			
<u>Ingredient</u>	<u>CAS Nbr</u>	<b>Classification</b>	<b><u>Regulation</u></b>
Triethanolamine	102-71-6	Gr. 3: Not classifiable	International Agency
			for Research on Cancer

### **Global inventory status**

Contact 3M for more information.

### DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2- methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	50	200

### 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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
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 1: Emergency telephone information was modified.

CLP: Ingredient table information was added.

Contains statement for sensitizers information was deleted.

Label: CLP Classification information was added.

Label: CLP Classification information was modified.

Label: CLP Percent Unknown information was deleted.

Label: CLP Precautionary - Disposal information was deleted.

Label: CLP Precautionary - Prevention information was added.

Label: CLP Precautionary - Response information was added.

Label: Graphic information was added.

Label: Signal Word information was added.

List of sensitizers information was deleted.

Section 3: Composition/ Information of ingredients table information was modified.

Section 03: SCL table information was modified.

Section 04: First Aid - Symptoms and Effects (CLP) information was modified.

Section 4: First aid for eye contact information information was modified.

Section 4: First aid for inhalation information information was modified.

Section 4: First aid for skin contact information information was modified.

Section 7: Precautions safe handling information information was modified.

Section 8: glove data value information was added.

Section 8: Occupational exposure limit table information was modified.

Section 8: Personal Protection - Respiratory Information information was added.

Section 8: Personal Protection - Skin/body information information was added.

Section 8: Personal Protection - Skin/hand information information was modified.

Section 8: Respiratory protection - recommended respirators guide information was added.

Section 8: Respiratory protection - recommended respirators information information was added.

Section 8: Respiratory protection information information was deleted.

Section 8: Skin protection - protective clothing information information was added.

Section 8: Skin protection - recommended gloves text information was added.

Section 09: Color information was modified.

Section 9: Density information information was modified.

Section 9: Vapour density value information was modified.

Section 10: Hazardous decomposition or by-products table information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Health Effects - Eye information information was modified.

Section 11: Health Effects - Inhalation information information was modified.

Section 11: Health Effects - Skin information information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Respiratory Sensitization Table information was added.

Section 11: Respiratory Sensitization text information was deleted.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

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.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 15: Carcinogenicity information information was added.

Section 15: Seveso Substance Text information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. 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.

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