

## **Safety Data Sheet**

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

#### 1.1. Product identifier

3M Perfect-It<sup>™</sup> Boat Wax 36112 36113

#### Product Identification Numbers

UU-0063-2351-1 UU-0063-2352-9

7100094554 7100094553

#### 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 United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.Telephone:+44 (0)1344 858 000E Mail:tox.uk@mmm.comWebsite:www.3M.com/uk

#### **1.4. Emergency telephone number**

+44 (0)1344 858 000

## **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

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

#### **CLASSIFICATION:**

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended for Great Britain, on classification, labelling, and packaging of substances and mixtures.

#### **2.2. Label elements The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain** Not applicable

#### SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.
EUH208	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

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

Nota P applied.

#### 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], as amended for GB
Non-Hazardous Ingredients	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	50 - 70	Substance not classified as hazardous
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	(EC-No.) 920-901-0	10 - 30	Asp. Tox. 1, H304 EUH066
Sorbitan oleate	(CAS-No.) 1338-43-8 (EC-No.) 215-665-4	0.5 - 1.5	Substance not classified as hazardous
White mineral oil (petroleum)	(CAS-No.) 8042-47-5 (EC-No.) 232-455-8	0.5 - 1.5	Asp. Tox. 1, H304
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
Kaolin, calcined	(CAS-No.) 92704-41-1 (EC-No.) 296-473-8	3 - 7	Substance not classified as hazardous
Poly(dimethylsiloxane)	(CAS-No.) 63148-62-9	1-5	Substance not classified as hazardous
Carnauba wax	(CAS-No.) 8015-86-9 (EC-No.) 232-399-4	1 - 5	Substance not classified as hazardous
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	(EC-No.) 927-676-8	1 - 5	Asp. Tox. 1, H304 EUH066
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	< 0.2	Carc. 2, H351 (inhalation)
Synthetic Hydrocarbon Mixture	Trade Secret	0.5 - 1.5	Substance not classified as hazardous

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
5	(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

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 are concerned, get medical advice.

#### Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eye contact

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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 GB CLP classification include: 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.

#### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
formaldehyde	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

#### **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 detergent and 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

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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

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
Titanium dioxide	13463-67-7	UK HSC

Limit type TWA(respirable):4 mg/m3;TWA(Inhalable):10 mg/m3 **Additional comments** 

UK HSC : UK Health and Safety Commission 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.

#### 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. 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

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used:Nitrile rubber.

Applicable Norms/Standards Use gloves tested to EN 374

#### **Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part

of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure: Half facepiece or full facepiece air-purifying respirator suitable for 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 type P

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

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

1. Information on basic physical and chemical prop	
Physical state	Liquid.
Colour	Light Yellow
Odor	Banana
Odour threshold	No data available.
Melting point/freezing point	Not applicable.
Boiling point/boiling range	198.9 °C
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Flash point	Flash point $> 93 \degree C (200 \degree F)$
Autoignition temperature	No data available.
Decomposition temperature	No data available.
рН	7.5 - 8.5
Kinematic Viscosity	17,895 mm <sup>2</sup> /sec
Water solubility	Moderate
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density	950 - 986 g/l
Relative density	0.95 - 0.986 [ <i>Ref Std</i> :WATER=1]
Relative Vapour Density	No data available.

#### 9.2. Other information

9.2.2 Other safety characteristics EU Volatile Organic Compounds Evaporation rate Molecular weight Percent volatile

No data available. No data available. Not applicable. 85.6 % 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**

Temperatures above the boiling point.

#### **10.5 Incompatible materials**

Strong acids. Strong bases. Strong oxidising agents.

## 10.6 Hazardous decomposition products <u>Substance</u>

None known.

**Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

## **SECTION 11: Toxicological information**

The information below may not agree with the 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 3M assessments.

11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

Signs and Symptoms of Exposure

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

#### Inhalation

May cause additional health effects (see below).

#### Skin contact

Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

#### Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion

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

#### Additional Health Effects:

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

#### **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	Inhalation- Vapour(4		No data available; calculated ATE >50 mg/l
	hr)		
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Inhalation- Vapour		LC50 estimated to be 20 - 50 mg/l

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Dermal	Rabbit	LD50 > 5,000 mg/kg
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Ingestion	Rat	LD50 > 5,000 mg/kg
Kaolin, calcined	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.07 mg/l
Kaolin, calcined	Dermal	similar compoun ds	LD50 > 5,000 mg/kg
Kaolin, calcined	Ingestion	similar compoun ds	LD50 > 5,000 mg/kg
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	Inhalation- Vapour	Professio nal judgeme nt	LC50 estimated to be 20 - 50 mg/l
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.4 mg/l
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	Dermal	similar compoun ds	LD50 > 5,000 mg/kg
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	Ingestion	similar compoun ds	LD50 > 5,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
Carnauba wax	Dermal		LD50 estimated to be > 5,000 mg/kg
Carnauba wax	Ingestion	Rat	LD50 > 8,800 mg/kg
Sorbitan oleate	Dermal		LD50 estimated to be $> 5,000 \text{ mg/kg}$
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sorbitan oleate	Ingestion	Rat	LD50 > 39,800  mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 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

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Rabbit	Minimal irritation
Kaolin, calcined	Rabbit	No significant irritation
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	similar	Mild irritant
	compoun	
	ds	
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Carnauba wax	Professio	No significant irritation
	nal	
	judgemen	
	t	
White mineral oil (petroleum)	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and	Rabbit	Corrosive
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		

#### Serious Eye Damage/Irritation

Name	Species	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Rabbit	Mild irritant
Kaolin, calcined	Rabbit	No significant irritation
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	similar	No significant irritation
	compoun	
	ds	
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Carnauba wax	Professio	No significant irritation
	nal	
	judgemen	
	t	
White mineral oil (petroleum)	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and	Rabbit	Corrosive
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		

#### **Skin Sensitisation**

Name	Species	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Guinea	Not classified
	pig	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	similar	Not classified
	compoun	
	ds	
White mineral oil (petroleum)	Guinea	Not classified
	pig	
Titanium dioxide	Human	Not classified
	and	
	animal	
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	

#### 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**

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

#### Germ Cell Mutagenicity

Name	Route	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	In Vitro	Not mutagenic
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	In vivo	Not mutagenic
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	In Vitro	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	In vivo	Not mutagenic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	In Vitro	Some positive data exist, but the data are not sufficient for classification

## Carcinogenicity

Name	Route	Species	Value

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not specified.	Not available	Not carcinogenic
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Dermal	Mouse	Not carcinogenic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Ingestion	Rat	Not carcinogenic

## **Reproductive Toxicity**

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

Name	Route	Value	Species	Test result	Exposure Duration
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not specified.	Not classified for female reproduction	Not available	NOAEL NA	1 generation
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not specified.	Not classified for male reproduction	Not available	NOAEL NA	28 days
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Not specified.	Not classified for development	Not available	NOAEL NA	during gestation
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
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

## 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-	Inhalation	respiratory irritation	May cause respiratory irritation	similar	NOAEL Not	
2-methyl-4-isothiazolin-3-				health	available	
one [EC no. 247-500-7]and				hazards		
2-methyl-2H-isothiazol-3-						
one [EC no. 220-239-6]						
(3:1)						

#### Specific Target Organ Toxicity - repeated exposure

Name R	Route Targe		Species	Test result	Exposure Duration
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Kaolin, calcined	Inhalation	pneumoconiosis	Not classified	similar compoun ds	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
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

Name	Value
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	Aspiration hazard
Hydrocarbons, C12-C16, 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 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, C11-C13, isoalkanes, <2% aromatics	920-901-0	Green algae	Estimated	72 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	Rainbow trout	Estimated	96 hours	LL50	>1,000 mg/l
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	Water flea	Estimated	48 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	Green algae	Estimated	72 hours	NOEL	1,000 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

Ionation answ of 5, 55965-84-9         Basteria         Experimental         16 hours         LCS0         5.7 mg1           Buildon 2-methyl- buildon 2							<u>.                                    </u>
isothizordin-3-one [EC to. 27-500- 7]nd 2-methyl- Isothizordin-3-one [EC	reaction mass of: 5-	55965-84-9	Bacteria	Experimental	16 hours	EC50	5.7 mg/l
IFC no. 247-500- 70nd 3-methyl- 214-isotilizatol-1- ans (FC no. 220- 230-6] (13)         Reperimental         48 hours         EC50         0.007 mg/l           230-6] (13)         Copeped         Experimental         48 hours         EC50         0.007 mg/l           14-isotilizatol-1- one (FC no. 220- 230-6] (14)         Copeped         Experimental         48 hours         EC50         0.007 mg/l           14-isotilizatol-1- one (FC no. 220- 230-6] (14)         Diatom         Experimental         72 hours         Fic50         0.0199 mg/l           160-2-methyl- 21-isotilizatol-1- one (FC no. 220- 230-6] (14)         Green algae         Experimental         72 hours         Eic50         0.027 mg/l           11-isotilizatol-1- one (FC no. 220- 230-6] (14)         Green algae         Experimental         72 hours         Eic50         0.027 mg/l           12-isotilizatol-3- one (FC no. 220- 230-6] (14)         Green algae         Experimental         72 hours         Eic50         0.19 mg/l           12-isotilizatol-3- one (FC no. 220- 230-6] (14)         Fiscepeindental         72 hours         Eic50         0.19 mg/l           12-isotilizatol-3- one (FC no. 220- 230-6] (14)         Fiscepeindental         Fiscepeindental         96 hours         LC50         0.19 mg/l           12-isotilizatol-3- one (FC no. 220- 230-6] (14)         Sitespeindental         F	chloro-2-methyl-4-			-			-
7]nd 2.methyl.         Experimental         48 hours         EC50         0.007 mg/l           reacton mass of: 5         55965.44-9         Copepod         Experimental         48 hours         EC50         0.007 mg/l           reacton mass of: 5         55965.84-9         Diatom         Experimental         48 hours         EC50         0.0199 mg/l           rund 2-methyl-         211-bithizol-1         0         0         0         0         0           rund 2-methyl-         213-64 (13.1)         Experimental         72 hours         ErC50         0.0199 mg/l           rund 2-methyl-         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         216-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         216-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         215-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         215-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1	isothiazolin-3-one						
7]nd 2.methyl.         Experimental         48 hours         EC50         0.007 mg/l           reacton mass of: 5         55965.44-9         Copepod         Experimental         48 hours         EC50         0.007 mg/l           reacton mass of: 5         55965.84-9         Diatom         Experimental         48 hours         EC50         0.0199 mg/l           rund 2-methyl-         211-bithizol-1         0         0         0         0         0           rund 2-methyl-         213-64 (13.1)         Experimental         72 hours         ErC50         0.0199 mg/l           rund 2-methyl-         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         216-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         216-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         215-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1           rund 2-methyl-         215-04 for 20-1         214-04 for 20-1         214-04 for 20-1         214-04 for 20-1							
214:isothaol-3- one [FC to .220- 230-6] (21)       Copepod       Experimental       48 hours       EC50       0.007 mg/l         (bitor3-methyl- 4): 40:mashed-3- one [FC to .227-500- 7] md 2-methyl- 20:40:mash of 5       55965-84-9       Diatom       Experimental       72 hours       ErC50       0.0199 mg/l         (c) mash of 5       55965-84-9       Diatom       Experimental       72 hours       ErC50       0.0199 mg/l         (c) mash of 5       55965-84-9       Diatom       Experimental       72 hours       ErC50       0.0199 mg/l         (c) mash of 5       55965-84-9       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         (c) mash of 5       55965-84-9       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         (c) mash of 5       55965-84-9       Kainbow tout       Experimental       96 hours       LC50       0.19 mg/l         (c) mash of 5       55965-84-9       Kainbow tout       Experimental       96 hours       LC50       0.19 mg/l         (c) FU to .27.500- 7] mad 2-methyl- 20-61 (1:1)       Stop5-84-9       Minnow       Experimental       96 hours       LC50       0.19 mg/l         (c) FU to .27.500- 7] mad 2-methyl- 11-sothaoa/3       Stop5-84-9       Minnow       Experimental <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Jone [EC no. 220- 239-6] (3.1)         Copepod         Experimental         48 hours         EC50         0.007 mg/l           reaction mass of 5         55905-84-9         Copepod         Experimental         48 hours         EC50         0.0199 mg/l           [EC no. 247-500- 7] hand 2-methyl- stolinazolin-3-one [EC no. 247-500- 7] hand 2-methyl- 7] hand 2-methyl- 8] (EC no. 247-500- 7] hand 2-methyl- 8] (EC no. 247-500- 7] (EC							
23-6 (G :1)         count         count         etc.         description           exaction mass of 5         55965-84-9         Copepod         Experimental         48 hours         ECS0         0.007 mg/l           prior 2-methyl-1         Prior 2-methyl-1         Firston mass of 5         55965-84-9         0.0199 mg/l           prior 2-methyl-1         Firston mass of 5         55965-84-9         Diatom         Experimental         72 hours         FirCS0         0.0199 mg/l           prior 2-methyl-1-         sothiazolina-3-one         Experimental         72 hours         FirCS0         0.0199 mg/l           prior 2-methyl-4-         sothiazolina-3-one         Experimental         72 hours         FirCS0         0.027 mg/l           prior 2-methyl-4-         sothiazolina-3-one         Experimental         72 hours         FirCS0         0.027 mg/l           prior 2-methyl-4-         sothiazolina-3-one         Experimental         72 hours         FirCS0         0.027 mg/l           prior 2-methyl-4-         sothiazolina-3-one         Experimental         96 hours         LCS0         0.19 mg/l           prior 2-methyl-4-         sothiazolina-3-one         Experimental         96 hours         LCS0         0.3 mg/l           prior 2-methyl-4-         sothiazolina-3-one<							
reaction mass of 5 45965-84-9 (broz-2-methyl-4- isothizazilin-3-one [EC no. 27-500- 7]and 2-methyl- JH-isothizazilin-3-one [EC							
ehoro-2.methyl-1. Jind 2.methyl- 23-64 (C1) 23-64 (							
isothazolin-3-one [EC no. 273-500- 7]and 2-methyl- Li-sothiazol-3- one [EC no. 270- 239-6] (31)         Diatom         Experimental         72 hours         Er.C50         0.0199 mg/l           100-22-methyl- 100-22-methyl- 11-sothiazol-3- one [EC no. 220- 239-6] (31)         Diatom         Experimental         72 hours         Er.C50         0.0199 mg/l           11-sothiazol-3- one [EC no. 220- 239-6] (31)         Green algae         Experimental         72 hours         Er.C50         0.027 mg/l           123-64 [0:31)         Green algae         Experimental         72 hours         Er.C50         0.027 mg/l           123-64 [0:31)         Green algae         Experimental         72 hours         Er.C50         0.027 mg/l           123-64 [0:31)         Green algae         Experimental         72 hours         Er.C50         0.027 mg/l           123-64 [0:31)         Green algae         Experimental         96 hours         L.C50         0.19 mg/l           123-64 [0:31)         Green algae         Experimental         96 hours         L.C50         0.19 mg/l           123-64 [0:31)         Green algae         Experimental         96 hours         L.C50         0.3 mg/l           123-64 [0:31)         Green algae         Experimental         96 hours         LC50         0.3 mg/l <t< td=""><td></td><td>55965-84-9</td><td>Copepod</td><td>Experimental</td><td>48 hours</td><td>EC50</td><td>0.007 mg/l</td></t<>		55965-84-9	Copepod	Experimental	48 hours	EC50	0.007 mg/l
[IC cn 247-500- 7]and 2-methyl- 235-6] (213)       Ref Cn 0: 220- 235-6] (213)       EtC S0       0.0199 mg/l         [IC cn 247-500- 7]and 2-methyl- 235-6] (213)       Diatom       Experimental       72 hours       EtC S0       0.0199 mg/l         [IC cn 247-500- 7]and 2-methyl- 235-6] (213)       S5965-84-9       Green algae       Experimental       72 hours       EtC S0       0.027 mg/l         [IC cn 247-500- 7]and 2-methyl- 241-isothizzol-3- one [EC no: 220- 235-6] (21)       S5965-84-9       Green algae       Experimental       72 hours       ErC S0       0.027 mg/l         [IC cn 247-500- 7]and 2-methyl- 4-isothizzol-3- one [EC no: 220- 235-6] (21)       Green algae       Experimental       96 hours       LCS0       0.19 mg/l         [IC cn 247-500- 7]and 2-methyl- 4-isothizzol-3- one [EC no: 220- 235-6] (21)       S5965-84-9       Rainbow trout       Experimental       96 hours       LCS0       0.19 mg/l         [IC cn 247-500- 7]and 2-methyl- 4-isothizzol-3- one [EC no: 220- 235-6] (21)       S5965-84-9       Minnow       Experimental       96 hours       LCS0       0.3 mg/l         [IC cn 247-500- 7]and 2-methyl- 235-6] (21)       Steepshead       Experimental       48 hours       ECS0       0.099 mg/l         [IC cn 247-500- 7]and 2-methyl- 235-6] (21)       Fite       Experimental       48 hours       NOEC       0.00049 mg/l	chloro-2-methyl-4-						
7] and 2-methyl- Hrisothizzol-3- one [EC no. 220- 230-6] (3.1)       Diatom       Experimental       72 hours       ErCS0       0.0199 mg/l         reaction mass of 5- 55965-84-9       Diatom       Experimental       72 hours       ErCS0       0.0199 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       96 hours       LCS0       0.19 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Rainbow trout       Experimental       96 hours       LCS0       0.19 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       96 hours       LCS0       0.3 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       96 hours       LCS0       0.3 mg/l         [Ef no. 220- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       48 hours       ECS0       0.099 mg/l         [Ef no. 220-	isothiazolin-3-one						
7] and 2-methyl- Hrisothizzol-3- one [EC no. 220- 230-6] (3.1)       Diatom       Experimental       72 hours       ErCS0       0.0199 mg/l         reaction mass of 5- 55965-84-9       Diatom       Experimental       72 hours       ErCS0       0.0199 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         [EC no. 270- 230-6] (3.1)       Green algae       Experimental       96 hours       LCS0       0.19 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Rainbow trout       Experimental       96 hours       LCS0       0.19 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       96 hours       LCS0       0.3 mg/l         [Ef no. 270- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       96 hours       LCS0       0.3 mg/l         [Ef no. 220- 230-6] (3.1)       FireS5965-84-9       Sheepshead       Experimental       48 hours       ECS0       0.099 mg/l         [Ef no. 220-	[EC no. 247-500-						
214-isothizzol-3- one (EC no. 220- 230-6] (3.1)       model (3.1)       model (3.1)         reaction mass of 5- 55965-84-9       Diatom       Experimental       72 hours       ErCS0       0.0199 mg/l         (EC no. 247-500- 7] mad 2-methyl- 214-sothizzol-3- one (EC no. 220- 230-6] (3.1)       S5965-84-9       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         (EC no. 27-500- 7] mad 2-methyl- 214-sothizzol-3- one (EC no. 220- 230-6] (3.1)       S5965-84-9       Green algae       Experimental       72 hours       ErCS0       0.027 mg/l         (EC no. 27-500- 7] mad 2-methyl- 44-isothizzol-3- one (EC no. 220- 230-6] (3.1)       Green algae       Experimental       96 hours       LCS0       0.19 mg/l         (EC no. 27-500- 7] mad 2-methyl- 44-isothizzol-3- one (EC no. 220- 230-6] (3.1)       Rainbow trout       Experimental       96 hours       LCS0       0.19 mg/l         (EC no. 27-500- 7] mad 2-methyl- 44-isothizzol-3- one (EC no. 220- 230-6] (3.1)       Steepshead       Experimental       96 hours       LCS0       0.3 mg/l         (EC no. 27-500- 7] mad 2-methyl- 41-isothizzol-3- one (EC no. 220- 230-6] (3.1)       Water flea       Experimental       48 hours       ECS0       0.099 mg/l         (EC no. 220- 230-6] (3.1)       Firstonizzol-3- one       Firstonizzol-3- one       48 hours       NOEC       0.00049 mg/l         (EC n							
Jone [EC no. 220- 29-6] (3.1)         Jone         Experimental         72 hours         ErCS0         0.0199 mg/l           reaction mass of 5- 15(C no. 277-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 275-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 275-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 276-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 276-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 277-500- 7] and 2-methyl-4- isotitazolina-3one [EC no. 277-500- [EC no. 277-500-[EC no. 270-[EC no							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
reaction mass of 5- 55965-84-9 Diatom Experimental P2 hours ErC50 0.0199 mg/l P1 P2 hours P2							
chlore-2-methyl-4- isothizaoli-3-one [FC no. 247-500- 239-6[131] reaction mass of 5- 55965-84-9 chlore-2-methyl-4- isothizaoli-3-one [FC no. 247-500- 239-6[131] reaction mass of 5- 55965-84-9 chlore-2-methyl-4- isothizaoli-3-one [FC no. 247-500- 7]and 2-methyl-4- isothizaoli-3- one [FC no. 220- 239-6[131] reaction mass of 5- 55965-84-9 chlore-2-methyl-4- isothizaoli-3- one [FC no. 220- 239-6[131] reaction mass of 5- 55965-84-9 chlore-2-methyl-4- isothizaoli-3- one [FC no. 220- 239-6[131] reaction mass of 5- 55956-84-9 chlore-2-methyl-4- isothizaoli-3- one [FC no. 220- 239-6[131] reaction mass of 5- 55956-84-9 chlo							
isothiazdini-3-one [EC no. 247-500- 7]and 2-methyl- Exh-isothiazol-3- one [EC no. 220- 239-61(31)]         Green algae         Experimental         72 hours         ErCS0         0.027 mg/l           reaction mass of 5- 5596-584-9         Green algae         Experimental         72 hours         ErCS0         0.027 mg/l           [EC no. 27-500- 7]and 2-methyl- Exh-isothiazol-3- one [EC no. 27-500- 7]and 2-methyl- Exh-i		55965-84-9	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
[EC no. 247-500- 7] and 2-methyl- 239-6] (3:1)         add 2-methyl- endition         add 2-methyl- endition <th< td=""><td>chloro-2-methyl-4-</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	chloro-2-methyl-4-						
7]and 2-methyl- 239-6 (3:1)       S5965-84-9       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         reaction mass of: 5- 5060-2-methyl-taisothizacol-3- one [EC no. 220- 239-6] (3:1)       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         Jand 2-methyl- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Stothizacol-3- one [EC no. 220- 239-6] (3:1)       Stothizacol-3- one [EC no. 247-500- 7]and 2-methyl- 241-sothizacol-3-one       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Pland 2-methyl- 239-6] (3:1)       Stothizacol-3- one       Stothizacol-3- one       Stothizacol-3- one       Stothizacol-3- one       0.19 mg/l         Pland 2-methyl- 241-sothizacol-3- one [EC no. 220- 239-6] (3:1)       Stothizacol-3- one       Stothizacol-3- one       0.3 mg/l         Pland 2-methyl- 241-sothizacol-3- one [EC no. 220- 239-6] (3:1)       Water flea       Experimental       48 hours       EC50       0.099 mg/l         Pland 2-methyl- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         Pland 2-methyl- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         Pland 2-methyl- 4- isothizacolin-3-one [EC no. 227-00- 7] and 2-methyl-4	isothiazolin-3-one						
7]and 2-methyl- 239-6 (3:1)       S5965-84-9       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         reaction mass of: 5- 5060-2-methyl-taisothizacol-3- one [EC no. 220- 239-6] (3:1)       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         Jand 2-methyl- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Stothizacol-3- one [EC no. 220- 239-6] (3:1)       Stothizacol-3- one [EC no. 247-500- 7]and 2-methyl- 241-sothizacol-3-one       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Pland 2-methyl- 239-6] (3:1)       Stothizacol-3- one       Stothizacol-3- one       Stothizacol-3- one       Stothizacol-3- one       0.19 mg/l         Pland 2-methyl- 241-sothizacol-3- one [EC no. 220- 239-6] (3:1)       Stothizacol-3- one       Stothizacol-3- one       0.3 mg/l         Pland 2-methyl- 241-sothizacol-3- one [EC no. 220- 239-6] (3:1)       Water flea       Experimental       48 hours       EC50       0.099 mg/l         Pland 2-methyl- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         Pland 2-methyl- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         Pland 2-methyl- 4- isothizacolin-3-one [EC no. 227-00- 7] and 2-methyl-4	[EC no. 247-500-						
211-sothizol 3- creation mass of: 5- 15965-84-9 (bloro-2-methyl-4- isothizol-3- one [EC no. 27-500- 7]and 2-methyl-4- isothizol-3- one [EC no. 220- 239-6] (3:1)       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         Plansthizol-3- one [EC no. 220- 239-6] (3:1)       Green algae       Experimental       72 hours       ErC50       0.027 mg/l         Plansthizol-3- one [EC no. 220- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Plansthizol-3- one [EC no. 220- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         Plansthizol-3- one [EC no. 220- 239-6] (3:1)       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         Pland 2-methyl- Pland 2-methyl- 239-6] (3:1)       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         Pland 2-methyl- 239-6] (3:1)       Sheepshead       Experimental       96 hours       LC50       0.99 mg/l         Pland 2-methyl- 239-6] (3:1)       Sheepshead       Experimental       48 hours       EC50       0.099 mg/l         Pland 2-methyl- 239-6] (3:1)       Sheepshead       Experimental       48 hours       NOEC       0.00049 mg/l         Pland 2-methyl- 239-6] (3:1)       Sheepsh-84-9       Diatom       Experimental							
one [EC no. 220- 239-5(13:1)     S5965-84-9     Green algae     Experimental     72 hours     ErC50     0.027 mg/l       [EC no. 27-500- 7]and 2-methyl- 239-5(13:1)     Green algae     Experimental     72 hours     ErC50     0.027 mg/l       [EC no. 220- 239-6] (3:1)     Rainbow trout     Experimental     96 hours     LC50     0.19 mg/l       [EC no. 247-500- 7]and 2-methyl- 211-softhizzol-3- one [EC no. 220- 239-6] (3:1)     S5965-84-9     Rainbow trout     Experimental     96 hours     LC50     0.19 mg/l       [EC no. 247-500- 7]and 2-methyl- 211-softhizzol-3- one [EC no. 220- 239-6] (3:1)     Stope-shead     Experimental     96 hours     LC50     0.3 mg/l       [EC no. 247-500- 7]and 2-methyl- 214-softhizzol-3- one [EC no. 220- 239-6] (3:1)     Stope-shead     Experimental     96 hours     LC50     0.3 mg/l       [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1)     Water flea     Experimental     48 hours     EC50     0.099 mg/l       [ET no. 247-500- 7]and 2-methyl- 4- isofthizzol-3-one [EC no. 247-500- 7]and 2-methyl-4- isofthizzol-3-one [EC no. 220- 239-6] (3:1)     Diatom     Experimental     48 hours     NOEC     0.00049 mg/l       [E							
239-6[13:1)							
reaction mass of: 5- 55965-84-9 choro-2-methyl-4- isothizzolin-3-one [EC no. 247-500- 7]and 2-methyl- ZH-sothizzol-3-one [EC no. 247-500- ZH-sothizzol-3-one [EC no. 247-500- ZH-sothizzol-3-one [							
chtoro-2-methyl-4- isothiazoli-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- 129-6 (3:1) reaction reaction				L			
isothiazolin-3-one [EC no. 275-00- 7]and 2-methyl- 239-6] (31) reaction mass of: 5 tobihazoli-3-one [EC no. 247-500- 7]and 2-methyl- 241-sothiazol-3-one [EC no. 247-500- 7]and 2-methyl- 241-sothiazol-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5 55965-84-9 Minnow Neter File no. 220- 239-6] (3:1) reaction mass of: 5 55965-84-9 chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl- 214-isothiazoli-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5 55965-84-9 chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- 239-6] (3:1) reaction mass of: 5 55965-84-9 chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- Sp6(5) (3:1) reaction mass of: 5 55965-84-9 chloro-2-methyl-4- isothiazoli-3-one [EC no. 220- 239-6] (3:1) reaction mass of: 5 55965-84-9 chloro-2-methyl-4- isothiazoli-3-one [EC no. 220- 239-6] (3:1) reaction mass of: 5 55965-84-9 Chore-2-methyl-4- isothiazoli-3-one [EC no. 220- 230-6] Chore-20- 230-6] Chore-20-		55965-84-9	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
IFE cn 2247-500-       Tind 2-methyl-       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         reaction mass of: 5       55965-84-9       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         (EC no. 220- 239-6] (31)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         (EC no. 220- 239-6] (31)       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5       55965-84-9       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5       55965-84-9       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5       55965-84-9       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5       55965-84-9       Water flea       Experimental       48 hours       EC50       0.099 mg/l         reaction mass of: 5       55965-84-9       Diatom       Experimental       48 hours       NOEC       0.0049 mg/l         reaction mass of: 5       55965-84-9       Diatom       Experimental       48 hours       NOEC       0.0049 mg/l         reaction mass of: 5							
7 Jand 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)Rainbow troutExperimental96 hoursLC500.19 mg/l1 H-sothiazol-3- one [EC no. 247-500- 7 Jand 2-methyl- 239-6] (3:1)Rainbow troutExperimental96 hoursLC500.19 mg/l239-6] (3:1)S5965-84-9Sheepshead MinnowExperimental96 hoursLC500.3 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)S5965-84-9Sheepshead MinnowExperimental96 hoursLC500.3 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)Water fleaExperimental48 hoursEC500.099 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)Water fleaExperimental48 hoursEC500.099 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental36 daysNOEL0.02 mg/l239-6] (3:1)Conce-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)Fathead minnowExperimental36 daysNOEL0.02 mg/l	isothiazolin-3-one						
7 Jand 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)Rainbow troutExperimental96 hoursLC500.19 mg/l1 H-sothiazol-3- one [EC no. 247-500- 7 Jand 2-methyl- 239-6] (3:1)Rainbow troutExperimental96 hoursLC500.19 mg/l239-6] (3:1)S5965-84-9Sheepshead MinnowExperimental96 hoursLC500.3 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)S5965-84-9Sheepshead MinnowExperimental96 hoursLC500.3 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)Water fleaExperimental48 hoursEC500.099 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)Water fleaExperimental48 hoursEC500.099 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/l1 H-sothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental36 daysNOEL0.02 mg/l239-6] (3:1)Conce-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)Fathead minnowExperimental36 daysNOEL0.02 mg/l	[EC no. 247-500-						
211-sohiazoi-3- ore [EC no. 220- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         reaction mass of: 5- 1500-2-methyl-4- isothiazoi-3- ore [EC no. 220- 239-6] (3:1)       Rainbow trout       Experimental       96 hours       LC50       0.19 mg/l         reaction mass of: 5- 1509-500- 7[and 2-methyl-4- isothiazoi-3- ore [EC no. 220- 239-6] (3:1)       Sheepshead       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5- tosthiazoi-3- ore [EC no. 220- 239-6] (3:1)       Minnow       Experimental       96 hours       LC50       0.3 mg/l         reaction mass of: 5- totor-2-methyl-4- isothiazoi-3- ore [EC no. 220- 239-6] (3:1)       Stepshead       Minnow       Experimental       48 hours       EC50       0.099 mg/l         LC50 - 220- 239-6] (3:1)       Water flea       Experimental       48 hours       EC50       0.099 mg/l         H-isothiazoi-3- ore [EC no. 220- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         H-isothiazoi-3- ore [EC no. 220- 239-6] (3:1)       Diatom       Experimental       48 hours       NOEC       0.00049 mg/l         Listhiazoi-3- ore [EC no. 220- 239-6] (3:1)       Fathead minnow       Experimental       36 days       NOEL       0.02 mg/l	7land 2-methyl-						
one [EC no. 220- 239-6] (3:1)Rainbow troutExperimental experimental96 hoursLC500.19 mg/lreaction mass of: 5- (EC no. 247-500- 7]and 2-methyl-4- isothiazolin-3-one (EC no. 220- 239-6] (3:1)Rainbow troutExperimental experimental96 hoursLC500.19 mg/lgene [EC no. 220- 239-6] (3:1)Sheepshead MinnowExperimental experimental96 hoursLC500.3 mg/lgene [EC no. 220- 239-6] (3:1)Sheepshead MinnowExperimental experimental96 hoursLC500.3 mg/lgene [EC no. 220- 239-6] (3:1)Water fleaExperimental experimental96 hoursEC500.099 mg/lgene [EC no. 220- 239-6] (3:1)Water fleaExperimental experimental48 hoursEC500.099 mg/lreaction mass of: 5- sobsof-84-9 chloro-2-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental experimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- sobsof-84-9 chloro-2-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental experimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- sobsof-84-9 chloro-2-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental experimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- sobsof-84-9 chloro-2-methyl-4- isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental experimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- so							
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chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 21+isothiazol-3- one [EC no. 220- 229-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 21+isothiazol-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 21+isothiazol-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 21+isothiazol-3- one [EC no. 20- 239-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-2]and 2-methyl-2				l <u> </u>			
isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- [EC no. 247-500- 239-6] (3:1) reaction mass of: 5- 55965-84-9 Minnow Experimental 96 hours LC50 0.3 mg/l Minnow Experimental 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 48 hours EC50 0.099 mg/l 1000-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-4- isothiazolin-3-one [EC no.		55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- [EC no. 247-500- 239-6] (3:1) reaction mass of: 5- 55965-84-9 Minnow Experimental 96 hours LC50 0.3 mg/l Minnow Experimental 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 96 hours LC50 0.3 mg/l 48 hours EC50 0.099 mg/l 1000-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-4- isothiazolin-3-one [EC no.							
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7] and 2-methyl-1       2H-isothiazol-3-one [EC no. 220-239-6] (3:1)							
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one [EC no. 220- 239-6] (3:1) reaction mass of: 5- [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- 55965-84-9 Minnow Mi							
239-6] (3:1)							
reaction mass of: 5- chloro-2-methyl-4- isothiazoli-3-one [EC no. 220- 239-6] (3:1) reaction mass of: 5- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl- 247-500- 7]and 2-methyl-4- isothiazoli-3-one [EC no. 220- 239-6] (3:1) reaction mass of: 5- chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl-4- [EC no. 2							
chloro-2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazoli-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- soft Soft-Soft- 7]and 2-methyl-4- isothiazoli-3-one [EC no. 247-500- 7]and 2-methyl-3- [EC no. 247-500- 7]and 2-methyl-3- [EC no. 247-500- 7]and 2-methyl-3- [EC no. 247-500- 7]and 2-methyl-3- [EC no. 247-500- 7]							
isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl-1 239-6] (3:1) reaction mass of: 5- 55965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- 55965-84-9 Diatom Experimental Experimental Experimental 48 hours EC50 0.099 mg/l 0.00049 mg/l	reaction mass of: 5-	55965-84-9	Sheepshead	Experimental	96 hours	LC50	0.3 mg/l
$ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-}\\ 239-6] (3:1) \\ \text{reaction mass of: } 5-5965-84-9 \\ \text{chloro-2-methyl-4-}\\ \text{isothiazoli-3-one} \\ \begin{bmatrix} EC \text{ no. } 220-\\ 239-6] (3:1) \\ \text{reaction mass of: } 5-5965-84-9 \\ \text{chloro-2-methyl-4-}\\ \text{isothiazoli-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{chloro-2-methyl-4-}\\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{chloro-2-methyl-4-}\\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{chloro-2-methyl-4-}\\ $	chloro-2-methyl-4-		Minnow				
$ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-}\\ 239-6] (3:1) \\ \text{reaction mass of: } 5-5965-84-9 \\ \text{chloro-2-methyl-4-}\\ \text{isothiazoli-3-one} \\ \begin{bmatrix} EC \text{ no. } 220-\\ 239-6] (3:1) \\ \text{reaction mass of: } 5-5965-84-9 \\ \text{chloro-2-methyl-4-}\\ \text{isothiazoli-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \begin{bmatrix} EC \text{ no. } 247-500-\\ 7 \end{bmatrix} \text{ and } 2-\text{methyl-2} \\ \text{chloro-2-methyl-4-}\\ \text{isothiazol-3-one} \\ \text{for } 247-500-\\ 7 \end{bmatrix} \text{ biatom } $							
7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)water fleaExperimental48 hoursEC500.099 mg/lreaction mass of: 5- softiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)Water fleaExperimental48 hoursEC500.099 mg/lreaction mass of: 5- softiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- softiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- softiazolin-3-one [EC no. 220- 239-6] (3:1)Fathead minnowExperimental36 daysNOEL0.02 mg/l							
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239-6] (3:1) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- chloro-2-methyl-4- isothiazolin-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 48 hours NOEC		55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1) reaction mass of: 5- chloro-2-methyl-4- isothiazolin-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 48 hours NOEC	chloro-2-methyl-4-						
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7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)Image: second s							
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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 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- fathead minnow Experimental 36 days NOEL 0.02 mg/l							
239-6] (3:1)ExperimentalKathead minnowreaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 239-6] (3:1)DiatomExperimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- cashead serviceDiatomExperimental48 hoursNOEC0.00049 mg/lreaction mass of: 5- cashead serviceS5965-84-9Fathead minnowExperimental36 daysNOEL0.02 mg/lreaction mass of: 5- isothiazolin-3-one [EC no. 247-500-Fathead minnowExperimental36 daysNOEL0.02 mg/l							
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1) reaction mass of: 5- isothiazolin-3-one [EC no. 247-500- Fathead minnow Fathead minnow Experimental Sector 230- Sector 240- Sector 230- Sector 230-							
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- s5965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-				ļ			
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- s5965-84-9 chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-		55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
[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         chloro-2-methyl-4-         isothiazolin-3-one         [EC no. 247-500-					1		
[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         chloro-2-methyl-4-         isothiazolin-3-one         [EC no. 247-500-	isothiazolin-3-one						
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-       isothiazolin-3-one       [EC no. 247-500-					1		
2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)       Fathead minnow       Experimental       36 days       NOEL       0.02 mg/l         reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-]       Fathead minnow       Experimental       36 days       NOEL       0.02 mg/l					1		
one [EC no. 220- 239-6] (3:1) reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-							
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-       isothiazolin-3-one       Experimental       36 days       NOEL       0.02 mg/l					1		
reaction mass of: 5- 55965-84-9 Fathead minnow Experimental 36 days NOEL 0.02 mg/l chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-							
chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-				ļ	1		
chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-		55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l
isothiazolin-3-one [EC no. 247-500-				-			_
[EC no. 247-500-							
					1		
	rjanu ∠-meuryi-	1	1	1	1	1	1

011 : 1 : 1 0						
2H-isothiazol-3- one [EC no. 220-						
239-6] (3:1)						
reaction mass of: 5-	55965-84-9	Green algae	Experimental	72 hours	NOEC	0.004 mg/l
chloro-2-methyl-4-			P			
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)						
Sorbitan oleate	1338-43-8	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Sololiuli oleute	1000 10 0	itumoo ii uout	Emportation	y o nouis	2000	100 mg 1
White mineral oil	8042-47-5	Water flea	Analogous	48 hours	EL50	>100 mg/l
(petroleum)			Compound			5
White mineral oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
(petroleum)		U U	1			C C
White mineral oil	8042-47-5	Green algae	Analogous	72 hours	NOEL	100 mg/l
(petroleum)			Compound			
White mineral oil	8042-47-5	Water flea	Analogous	21 days	NOEL	>100 mg/l
(petroleum)			Compound			
Kaolin, calcined	92704-41-1	Bacteria	Estimated	16 hours	EC10	1,400 mg/l
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC50	2,500 mg/l
Kaolin, calcined	92704-41-1	Water flea	Estimated	48 hours	EC50	>100 mg/l
Kaolin, calcined	92704-41-1	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
IZ I' I ' I	00704 41 1			72.1	EC10	41 /1
Kaolin, calcined	92704-41-1	Green algae	Estimated	72 hours	EC10	41 mg/l
Kaolin, calcined	92704-41-1	Rainbow trout	Estimated	30 days	NOEC	100 mg/l
Kaolili, calcilleu	92/04-41-1	Kallibow trout	Estimated	50 days	NOEC	100 mg/1
Carnauba wax	8015-86-9	N/A	Data not available	N/A	N/A	N/A
Carnauba wax	0015-00-7	11/21	or insufficient for	11/11	11/74	11/14
			classification			
Hydrocarbons,	927-676-8	Green algae	Estimated	72 hours	EL50	>1,000 mg/l
C12-C16,	21 010 0	Green uigue	Estimated	/2 nouis	LLSU	1,000 mg/1
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons,	927-676-8	Green algae	Estimated	72 hours	NOEL	1,000 mg/l
C12-C16,						
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons,	927-676-8	Invertebrate	Estimated	96 hours	LL50	>10,000 mg/l
C12-C16,						
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons,	927-676-8	Rainbow trout	Experimental	96 hours	LL50	>88,444 mg/l
C12-C16,						
isoalkanes, cyclics, <2% aromatics						
	027 676 9	Water flag	Exporimental	18 hours	EI 50	>1,000 mg/l
Hydrocarbons, C12-C16,	927-676-8	Water flea	Experimental	48 hours	EL50	~1,000 mg/1
isoalkanes, cyclics,						
<2% aromatics						
Hydrocarbons,	927-676-8	Water flea	Experimental	21 days	NOEL	1 mg/l
C12-C16,	121-010-0	water fiea		21 days	TOEL	<sup>1</sup> <sup>111</sup> <sup>8</sup> / <sup>1</sup>
isoalkanes, cyclics,						
<2% aromatics						
		1	1	1	1	I

Poly(dimethylsilox ane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l

## 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	Estimated Biodegradation	28 days	BOD	31.3 %BOD/ThOD	OECD 301F - Manometric respirometry
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)	55965-84-9	Analogous Compound Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)	55965-84-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	> 60 days (t 1/2)	
Sorbitan oleate	1338-43-8	Modeled Biodegradation	28 days	BOD	68 %BOD/ThOD	Catalogic™
White mineral oil (petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Kaolin, calcined	92704-41-1	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Carnauba wax	8015-86-9	Modeled Biodegradation	28 days	CO2 evolution	96 %CO2 evolution/THCO2 evolution	Catalogic™
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	927-676-8	Experimental Biodegradation	28 days	BOD	22 %BOD/ThOD	OECD 301F - Manometric respirometry
Poly(dimethylsilox ane)	63148-62-9	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Data not availbl- insufficient	N/A	N/A	N/A	N/A

## 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one		Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	54	OECD305-Bioconcentration

Titanium dioxide	13463-67-7	classification Experimental BCF - Fish	42 days	Bioaccumulation	9.6	
Poly(dimethylsilox ane)	63148-62-9	Data not available or insufficient for	N/A	N/A	N/A	N/A
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	927-676-8	Data not available or insufficient for classification		N/A	N/A	N/A
Carnauba wax	8015-86-9	Modeled Bioconcentration		Bioaccumulation factor	7.4	Catalogic™
Kaolin, calcined	92704-41-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Bioconcentration Data not available or insufficient for classification	N/A	factor N/A	N/A	N/A
[EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1) Sorbitan oleate	1338-43-8	Modeled		Bioaccumulation	7.8	Catalogic™
reaction mass of: 5- chloro-2-methyl-4- isothiazolin-3-one	55965-84-9	Analogous Compound Bioconcentration		Log Kow	0.4	
[EC no. 247-500- 7]and 2-methyl- 2H-isothiazol-3- one [EC no. 220- 239-6] (3:1)						

#### 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)		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.** Other adverse effects

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

## **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)

20 01 29\* Detergents containing dangerous substances

## **SECTION 14: Transportation information**

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	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

Car	cinogenicity <u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
	Titanium dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

#### Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

## Ingredient CAS Nbr

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

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

#### Global inventory status

Contact 3M for more 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 product the selling division for additional information. The components of this product the selling division for additional information. The components of the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

#### COMAH Regulation, SI 2015/483

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2

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

#### Regulation (EU) No 649/2012, as amended for GB

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 for GB.

## **SECTION 16: Other information**

#### List of relevant H statements

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H301	Toxic 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.
H351i	Suspected of causing cancer by inhalation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### **Revision information:**

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: Reproductive Toxicity Table information was modified.

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.

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.

#### 3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.