



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

Vinyl & Rubber Cleaner & Protectant (Marine/RV) M57 [M5716]

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

Identified uses

Cleans and protects vinyl and rubber surfaces

1.3. Details of the supplier of the safety data sheet

Address: Meguiars United Kingdom Limited, 3 Lamport Court, Heartlands, Daventry, Northants, NN11 8UF
Telephone: +44 (0)870 241 6696
E Mail: info@meguiars.co.uk
Website: www.meguiars.co.uk

1.4. Emergency telephone number

+44 (0)870 241 6696

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.

CLASSIFICATION:

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

WARNING.

Symbols

GHS07 (Exclamation mark) |

Pictograms



HAZARD STATEMENTS:

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P102 Keep out of reach of children.

Response:

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

Disposal:

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

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208 Contains [3R-(3a,3aß,7ß,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one. | 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.

2% of the mixture consists of components of unknown acute oral toxicity.

Contains 2% of components with unknown hazards to the aquatic environment.

Information required per Regulation (EU) No 528/2012 on Biocidal Products:

Contains a biocidal product (preservative): C(M)IT/MIT (3:1).

Notes on labelling

Updated per Regulation (EC) No. 648/2004 on detergents.

Ingredients required per 648/2004: <5%: Phosphates, Non-ionic surfactants. Contains: Perfumes, Mixture of Methylchloroisothiazolinone and Methylisothiazolinone (3:1).

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Non-Hazardous Ingredients	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	60 - 80	Substance not classified as hazardous
Poly(dimethylsiloxane)	(CAS-No.) 63148-62-9	10 - 30	Substance not classified as hazardous
Propane-1,2-diol	(CAS-No.) 57-55-6 (EC-No.) 200-338-0 (REACH-No.) 01-2119456809-23	1 - 5	Substance with a national occupational exposure limit
Pentapotassium triphosphate	(CAS-No.) 13845-36-8 (EC-No.) 237-574-9	1 - 3	Substance not classified as hazardous
Alcohols, C11-14-iso-, C13-rich, ethoxylated	(CAS-No.) 78330-21-9	0.5 - 2.5	Acute Tox. 4, H302 Eye Dam. 1, H318
Trisodium orthophosphate	(CAS-No.) 7601-54-9 (EC-No.) 231-509-8	< 1.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
2-benzylideneheptanal	(CAS-No.) 122-40-7 (EC-No.) 204-541-5	<= 0.2	Aquatic Acute 1, H400,M=1 Aquatic Chronic 2, H411
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	(CAS-No.) 32388-55-9 (EC-No.) 251-020-3	<= 0.1	Skin Sens. 1B, H317 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	(CAS-No.) 6197-30-4 (EC-No.) 228-250-8	<= 0.05	Aquatic Chronic 1, H410,M=10
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	<= 0.001	EUH071 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=100 Aquatic Chronic 1, H410,M=100 Nota B Acute Tox. 2, H330 Acute Tox. 2, H310

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

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
Alcohols, C11-14-iso-, C13-rich, ethoxylated	(CAS-No.) 78330-21-9	(C >= 10%) Eye Dam. 1, H318 (5% =< C < 10%) Eye Irrit. 2, H319
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (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 feel unwell, get medical attention.

Skin contact

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

Eye contact

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

If swallowed

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

4.2. Most important symptoms and effects, both acute and delayed

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Aldehydes.
formaldehyde
Carbon monoxide
Carbon dioxide.
Irritant vapours or gases.

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.

5.3. Advice for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid eye contact. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. 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.)

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	Limit type	Additional comments
Propane-1,2-diol	57-55-6	UK HSC	TWA(as total vapour and particulates):474 mg/m3(150 ppm);TWA(as particulate):10 mg/m3	

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.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from UK HSC

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Applicable Norms/Standards

Use eye protection conforming to EN 166

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

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

Material	Thickness (mm)	Breakthrough Time
Butyl rubber.	No data available	No data available
Neoprene.	No data available	No data available
Nitrile rubber.	No data available	No data available

Applicable Norms/Standards

Use gloves tested to EN 374

Respiratory protection

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

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

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

Applicable Norms/Standards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid.

Colour

Milky White

Odor

Pleasant Odor

Odour threshold

No data available.

Melting point/freezing point	<i>Not applicable.</i>
Boiling point/boiling range	100 °C
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Flash point	No flash point [<i>Details:N/A</i>]
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>No data available.</i>
pH	10.5 - 11.4
Kinematic Viscosity	<i>No data available.</i>
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Density	1 g/cm ³
Relative density	1 [<i>Ref Std:WATER=1</i>]
Relative Vapor Density	<i>No data available.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>

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>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from

internal hazard assessments.**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Signs and Symptoms of Exposure**

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

Inhalation

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

Skin contact

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Eye contact

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

Ingestion

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

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
Propane-1,2-diol	Dermal	Rabbit	LD50 20,800 mg/kg
Propane-1,2-diol	Ingestion	Rat	LD50 22,000 mg/kg
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Ingestion	Rat	LD50 1,350 mg/kg
Trisodium orthophosphate	Dermal	Rat	LD50 > 2,000 mg/kg
Trisodium orthophosphate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.83 mg/l
Trisodium orthophosphate	Ingestion	Rat	LD50 > 2,000 mg/kg
[3R-(3a,3aß,7ß,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Dermal	Rabbit	LD50 > 5,000 mg/kg
[3R-(3a,3aß,7ß,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Ingestion	Rat	LD50 4,500 mg/kg
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal		LD50 estimated to be > 5,000 mg/kg
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	Rat	LD50 > 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 0.33 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
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Propane-1,2-diol	Rabbit	No significant irritation
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Rabbit	Mild irritant
Trisodium orthophosphate	Rabbit	Irritant
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Rabbit	Minimal irritation
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Poly(dimethylsiloxane)	Rabbit	No significant irritation
Propane-1,2-diol	Rabbit	No significant irritation
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Rabbit	Corrosive
Trisodium orthophosphate	Rabbit	Corrosive
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	similar health hazards	Mild irritant
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Propane-1,2-diol	Human	Not classified
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Human	Not classified
[3R-(3a,3aB,7B,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Mouse	Sensitising
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Guinea pig	Not classified
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Human and animal	Sensitising

Photosensitisation

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

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Propane-1,2-diol	In Vitro	Not mutagenic
Propane-1,2-diol	In vivo	Not mutagenic
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	In Vitro	Not mutagenic
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	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
Propane-1,2-diol	Dermal	Mouse	Not carcinogenic
Propane-1,2-diol	Ingestion	Multiple animal species	Not carcinogenic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Dermal	Mouse	Not carcinogenic
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Propane-1,2-diol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 10,100 mg/kg/day	2 generation
Propane-1,2-diol	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,230 mg/kg/day	during organogenesis
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
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
Propane-1,2-diol	Ingestion	central nervous system depression	Not classified	Human and animal	NOAEL Not available	
Trisodium orthophosphate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Propane-1,2-diol	Ingestion	hematopoietic system	Not classified	Multiple animal species	NOAEL 1,370 mg/kg/day	117 days
Propane-1,2-diol	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 5,000 mg/kg/day	104 weeks
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 534 mg/kg/day	13 weeks
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,085 mg/kg	90 days
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	blood liver kidney and/or bladder	Not classified	Rabbit	NOAEL 1,085 mg/kg/day	13 weeks

Aspiration Hazard

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

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Poly(dimethylsiloxane)	63148-62-9		Data not available or insufficient for classification			N/A
Propane-1,2-diol	57-55-6	Crustacea other	Experimental	96 hours	LC50	18,800 mg/l
Propane-1,2-diol	57-55-6	Green Algae	Experimental	96 hours	EC50	19,000 mg/l
Propane-1,2-diol	57-55-6	Rainbow trout	Experimental	96 hours	LC50	40,613 mg/l
Propane-1,2-diol	57-55-6	Water flea	Experimental	48 hours	EC50	18,340 mg/l
Propane-1,2-diol	57-55-6	Green algae	Experimental	96 hours	NOEC	15,000 mg/l
Propane-1,2-diol	57-55-6	Water flea	Experimental	7 days	NOEC	13,020 mg/l
Pentapotassium triphosphate	13845-36-8	Activated sludge	Estimated	3 hours	EC50	>1,000 mg/l
Pentapotassium triphosphate	13845-36-8	Water flea	Estimated	48 hours	EC50	>120 mg/l
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9		Data not available or insufficient for			N/A

Vinyl & Rubber Cleaner & Protectant (Marine/RV) M57 [M5716]

			classification			
Trisodium orthophosphate	7601-54-9	Activated sludge	Estimated	3 hours	NOEC	1,000 mg/l
Trisodium orthophosphate	7601-54-9	Green algae	Estimated	72 hours	EC50	>100 mg/l
Trisodium orthophosphate	7601-54-9	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l
Trisodium orthophosphate	7601-54-9	Water flea	Estimated	48 hours	EC50	>100 mg/l
Trisodium orthophosphate	7601-54-9	Green algae	Estimated	72 hours	NOEC	100 mg/l
2-benzylideneheptanal	122-40-7	Green Algae	Experimental	72 hours	EC50	>1.5 mg/l
2-benzylideneheptanal	122-40-7	Medaka	Experimental	96 hours	LC50	0.91 mg/l
2-benzylideneheptanal	122-40-7	Water flea	Experimental	48 hours	EC50	0.28 mg/l
2-benzylideneheptanal	122-40-7	Green Algae	Experimental	72 hours	NOEC	0.21 mg/l
2-benzylideneheptanal	122-40-7	Water flea	Experimental	21 days	NOEC	0.014 mg/l
[3R-(3a,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Fathead minnow	Experimental	96 hours	LC50	2.3 mg/l
[3R-(3a,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Green Algae	Experimental	96 hours	EC50	>4.3 mg/l
[3R-(3a,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Water flea	Experimental	48 hours	EC50	0.86 mg/l
[3R-(3a,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Green Algae	Experimental	96 hours	NOEC	1.07 mg/l
[3R-(3a,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Water flea	Experimental	21 days	NOEC	0.087 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Activated sludge	Experimental	30 minutes	NOEC	1,000 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Golden Orfe	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l

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2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Water flea	Experimental	21 days	NOEC	0.00266 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	Copepods	Experimental	48 hours	EC50	0.007 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Diatom	Experimental	72 hours	EC50	0.0199 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Green Algae	Experimental	72 hours	EC50	0.027 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l

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. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Green Algae	Experimental	72 hours	NOEC	0.004 mg/l
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	Water flea	Experimental	21 days	NOEC	0.004 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Poly(dimethylsiloxane)	63148-62-9	Data not availbl-insufficient			N/A	
Propane-1,2-diol	57-55-6	Experimental Biodegradation	28 days	BOD	90 % BOD/ThBOD	OECD 301C - MITI test (I)
Pentapotassium triphosphate	13845-36-8	Data not availbl-insufficient			N/A	
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Experimental Biodegradation	28 days	CO2 evolution	=>40 % weight	OECD 301B - Modified sturm or CO2
Trisodium orthophosphate	7601-54-9	Data not availbl-insufficient			N/A	
2-benzylideneheptanal	122-40-7	Experimental Biodegradation	28 days	BOD	90 % weight	OECD 301F - Manometric respirometry
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Estimated Photolysis		Photolytic half-life (in air)	3.5 hours (t 1/2)	Non-standard method
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Experimental Biodegradation	28 days	BOD	36 % BOD/ThBOD	OECD 301F - Manometric respirometry
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental Biodegradation	28 days	BOD	0 % BOD/ThBOD	Non-standard method
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	Estimated Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	Non-standard method
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	> 60 days (t 1/2)	Non-standard method
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	Estimated Biodegradation	29 days	CO2 evolution	62 %CO2 evolution/THC O2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Poly(dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Propane-1,2-diol	57-55-6	Experimental Bioconcentration		Log Kow	-0.92	Non-standard method
Pentapotassium triphosphate	13845-36-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Experimental BCF - Fathead Minnow	72 hours		232	
Trisodium orthophosphate	7601-54-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-benzylideneheptanal	122-40-7	Estimated Bioconcentration		Bioaccumulation factor	575	Estimated: Bioconcentration factor
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Experimental BCF - Rainbow Trout	28 days	Bioaccumulation factor	3920	OECD 305E - Bioaccumulation flow-through fish test
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental BCF - Other	28 days	Bioaccumulation factor	887	OECD 305E - Bioaccumulation flow-through fish test
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	Estimated BCF - Bluegill	28 days	Bioaccumulation factor	54	OECD 305E - Bioaccumulation flow-through fish test

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Propane-1,2-diol	57-55-6	Experimental Mobility in Soil	Koc	ERROR: Length cannot be greater than the length of the string.	Episuite™
2-benzylideneheptanal	122-40-7	Estimated Mobility in Soil	Koc	680 l/kg	Episuite™
[3R-(3a,3aβ,7β,8aa)]-1-(2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	32388-55-9	Experimental Mobility in Soil	Koc	33 l/kg	EC C.19 Estim. of Koc by HPLC

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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

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

EU waste code (product as sold)

20 01 29* Detergents containing dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

ADR/IMDG/IATA: Not restricted for transport.

	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 Tunnel Code	No data available.	Not Applicable	No Data Available
ADR Classification Code	No data available.	No Data Available	No Data Available
ADR Transport Category	No data available.	No Data Available	No Data Available
ADR Multiplier	No data available.	No Data Available	No Data Available
IMDG Segregation Code	No data available.	No Data Available	No Data Available
Transport not Permitted	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

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
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:

EU Section 09: pH information information was added.
Section 03: Composition table % Column heading information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 03: SCL table information was added.
Section 03: Substance not applicable information was added.
Section 04: Information on toxicological effects information was modified.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 09: Kinematic Viscosity information information was added.
Section 9: Melting point information information was modified.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: Mobility in soil information information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: Persistence and Degradability information information was modified.
Section 12: Bioaccumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.
Section 14 Multiplier – Main Heading information was added.
Section 14 Multiplier – Regulation Data information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.
Section 14 Transport Category – Main Heading information was added.
Section 14 Transport Category – Regulation Data information was added.
Section 14 Transport in bulk – Regulation Data information was added.

Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.

Section 14 Transport Not Permitted – Main Heading information was added.

Section 14 Transport Not Permitted – Regulation Data information was added.

Section 14 Tunnel Code – Main Heading information was added.

Section 14 Tunnel Code – Regulation Data information was added.

Section 14 UN Number Column data information was added.

Section 14 UN Number information was added.

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