Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

IDENTIFICATION

1.1. Product identifier
3M Premium Car Care kit

Product Identification Numbers
IA-2601-0531-6 IA-2700-0124-0 IA-2700-0125-7

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

Recommended use
Automotive.

1.3. Supplier's details

Address:	3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone:	080-45543000, contact Product EHS team
E Mail:	productehs.in@mmm.com
Website:	http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

32-7127-7, 41-1254-6, 41-1260-3, 34-5486-5

TRANSPORT INFORMATION

Air Transport (IATA)Regulations
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
3M Dashboard Dresser

Product Identification Numbers
IA-2601-0189-3 IA-2601-0190-1 IA-2601-0415-2 IA-2601-0448-3

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Castrol Cobranded product range of pro-care

1.3. Supplier's details

Address:	3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone:	080-45543000, contact Product EHS team
E Mail:	productehs.in@mmm.com
Website:	http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Skin Sensitizer: Category 1A.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 2.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal Word
Warning

Symbols
Exclamation mark | Health Hazard |

Pictograms



HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

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

Prevention:

P280E	Wear protective gloves.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage:

P405	Store locked up.

Disposal:

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

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Water	7732-18-5	60 - 90
Glycerol	56-81-5	1 - 15
POLY(dimethylsiloxane)	63148-62-9	5 - 15
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	0.1 - 2
2,2',2"-Nitrilotriethanol	102-71-6	0.1 - 1.5
Diethanolamine	111-42-2	< 0.5
BENZALDEHYDE	100-52-7	< 0.5
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	< 0.1
2-methyl-2H-isothiazol-3-one	2682-20-4	< 0.01

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

SECTION 5: Fire-fighting measures

5.1. Suitable 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

Substance	Condition
Hydrocarbons.	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.
Oxides of nitrogen.	During combustion.

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

spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

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 in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from oxidising agents.

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
BENZALDEHYDE	100-52-7	AIHA	TWA:8.7 mg/m3(2 ppm);STEL(15 minutes):17.4 mg/m3(4 ppm)	Dermal Sensitizer
2,2',2"-Nitrilotriethanol	102-71-6	ACGIH	TWA:5 mg/m3	
Diethanolamine	111-42-2	ACGIH	TWA(inhalable fraction and vapor):1 mg/m3	A3: Confirmed animal carcin., Danger of cutaneous absorption

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

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:
Full face shield.
Indirect vented goggles.

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: Polymer laminate

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

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 vapors and particulates, including oily mists

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Emulsion
Color	Pink, White
Odor	Cherry
Odour threshold	*No data available.*
pH	7.5 - 8.5 Units not available or not applicable.
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	*Not applicable.*
Flash point	*Not applicable.*
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Relative Vapor Density	*Not applicable.*
Density	0.95 - 1.05 g/cm3 [@ 25 ºC]
Relative density	*Not applicable.*
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*Not applicable.*

Decomposition temperature	*No data available.*
Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation
No health effects are expected.

Skin contact
Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

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. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
POLY(dimethylsiloxane)	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
POLY(dimethylsiloxane)	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
2,2',2"-Nitrilotriethanol	Dermal	Rabbit	LD50 > 2,000 mg/kg
2,2',2"-Nitrilotriethanol	Ingestion	Rat	LD50 9,000 mg/kg
BENZALDEHYDE	Dermal	Rabbit	LD50 >2000, <5000 mg/kg
BENZALDEHYDE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1, <5 mg/l
BENZALDEHYDE	Ingestion	Rat	LD50 1,430 mg/kg
Diethanolamine	Dermal	Rabbit	LD50 8,180 mg/kg
Diethanolamine	Ingestion	Rat	LD50 1,410 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg
2-methyl-2H-isothiazol-3-one	Dermal	Rat	LD50 242 mg/kg
2-methyl-2H-isothiazol-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-methyl-2H-isothiazol-3-one	Ingestion	Rat	LD50 120 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
POLY(dimethylsiloxane)	Human and animal	No significant irritation
Glycerol	Rabbit	No significant irritation
2,2',2"-Nitrilotriethanol	Rabbit	Minimal irritation
BENZALDEHYDE	Multiple animal species	Irritant
Diethanolamine	Rabbit	Irritant

5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
POLY(dimethylsiloxane)	Rabbit	No significant irritation
Glycerol	Rabbit	No significant irritation
2,2',2"-Nitrilotriethanol	Rabbit	Mild irritant
BENZALDEHYDE	Rabbit	Moderate irritant
Diethanolamine	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
POLY(dimethylsiloxane)	Human and animal	Not classified
Glycerol	Guinea pig	Not classified
2,2',2"-Nitrilotriethanol	Human	Not classified
BENZALDEHYDE	Human	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	Human and animal	Not classified
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Sensitising
2-methyl-2H-isothiazol-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing
2-methyl-2H-isothiazol-3-one	Human and animal	Not sensitizing

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
POLY(dimethylsiloxane)	In Vitro	Not mutagenic
POLY(dimethylsiloxane)	In vivo	Not mutagenic
2,2',2"-Nitrilotriethanol	In Vitro	Not mutagenic
2,2',2"-Nitrilotriethanol	In vivo	Not mutagenic
BENZALDEHYDE	In vivo	Not mutagenic
BENZALDEHYDE	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	In Vitro	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In vivo	Not mutagenic

5-chloro-2-methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-methyl-2H-isothiazol-3-one	In vivo	Not mutagenic
2-methyl-2H-isothiazol-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
POLY(dimethylsiloxane)	Dermal	Mouse	Not carcinogenic
POLY(dimethylsiloxane)	Ingestion	Mouse	Not carcinogenic
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
2,2',2"-Nitrilotriethanol	Dermal	Multiple animal species	Not carcinogenic
2,2',2"-Nitrilotriethanol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
BENZALDEHYDE	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	Dermal	Mouse	Carcinogenic.
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
2-methyl-2H-isothiazol-3-one	Dermal	Mouse	Not carcinogenic
2-methyl-2H-isothiazol-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
POLY(dimethylsiloxane)	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesis
POLY(dimethylsiloxane)	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesis
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
2,2',2"-Nitrilotriethanol	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
BENZALDEHYDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 5 mg/kg/day	1 generation
Diethanolamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
Diethanolamine	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
Diethanolamine	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
Diethanolamine	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

2-methyl-2H-isothiazol-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methyl-2H-isothiazol-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methyl-2H-isothiazol-3-one	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
BENZALDEHYDE	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL not available	
Diethanolamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	
Diethanolamine	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-methyl-2H-isothiazol-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
POLY(dimethylsiloxane)	Ingestion	eyes	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	heart | liver | kidney and/or bladder | vascular system	Not classified	Rat	NOAEL 1%	90 days
Glycerol	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
2,2',2"-Nitrilotriethanol	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
2,2',2"-Nitrilotriethanol	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
2,2',2"-Nitrilotriethanol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
2,2',2"-Nitrilotriethanol	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks
BENZALDEHYDE	Inhalation	hematopoietic	Not classified	Rat	NOAEL 4.34	14 days

		system | liver | nervous system | respiratory system | heart | endocrine system | gastrointestinal tract | kidney and/or bladder			mg/l	
BENZALDEHYDE	Ingestion	liver | nervous system | kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	13 weeks
BENZALDEHYDE	Ingestion	gastrointestinal tract | heart | endocrine system | bone, teeth, nails, and/or hair | hematopoietic system | immune system | eyes | respiratory system	Not classified	Rat	NOAEL 800 mg/kg/day	13 weeks
Diethanolamine	Dermal	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 32 mg/kg/day	13 weeks
Diethanolamine	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8 mg/kg/day	2 years
Diethanolamine	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	liver | kidney and/or bladder	Not classified	Rat	NOAEL 0.03 mg/l	13 weeks
Diethanolamine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 14 mg/kg/day	13 weeks
Diethanolamine	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
Diethanolamine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	13 weeks
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 436 mg/kg/day	13 weeks

Aspiration Hazard
For the component/components, either no data are currently available or the data are 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.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerol	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
POLY(dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2,2',2"-Nitrilotriethanol	102-71-6	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
2,2',2"-Nitrilotriethanol	102-71-6	Fathead minnow	Experimental	96 hours	LC50	11,800 mg/l
2,2',2"-Nitrilotriethanol	102-71-6	Green algae	Experimental	72 hours	ErC50	512 mg/l
2,2',2"-Nitrilotriethanol	102-71-6	Water flea	Experimental	48 hours	EC50	609.98 mg/l
2,2',2"-Nitrilotriethanol	102-71-6	Green algae	Experimental	72 hours	ErC10	26 mg/l
2,2',2"-Nitrilotriethanol	102-71-6	Water flea	Experimental	21 days	NOEC	16 mg/l
BENZALDEHYDE	100-52-7	Algae or other aquatic plants	Experimental	72 hours	EC50	32 mg/l
BENZALDEHYDE	100-52-7	Bluegill	Experimental	96 hours	LC50	1.07 mg/l
BENZALDEHYDE	100-52-7	Mysid Shrimp	Experimental	48 hours	LC50	1.3 mg/l
BENZALDEHYDE	100-52-7	Water flea	Experimental	48 hours	LC50	9 mg/l
BENZALDEHYDE	100-52-7	Algae or other aquatic plants	Experimental	72 hours	NOEC	2 mg/l
BENZALDEHYDE	100-52-7	Fathead minnow	Experimental	7 days	NOEC	0.12 mg/l
BENZALDEHYDE	100-52-7	Activated sludge	Experimental	3 hours	IC50	740
BENZALDEHYDE	100-52-7	Lettuce	Experimental	14 days	EC50	448 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Brine shrimp	Experimental	24 hours	EC50	2,800 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	EC50	86.96 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC50	9.5 mg/l
Diethanolamine	111-42-2	Rainbow trout	Experimental	96 hours	LC50	460 mg/l
Diethanolamine	111-42-2	Sheepshead Minnow	Experimental	96 hours	LC50	>589 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	48 hours	EC50	30.1 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	NOEC	<16 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC10	1.4 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
Diethanolamine	111-42-2	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
Diethanolamine	111-42-2	Plant	Experimental	21 days	EC50	1,632 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Redworm	Experimental	63 days	EC50	776 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Springtail	Experimental	28 days	EC50	4,205 mg/kg (Dry Weight)
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	EbC50	0.021 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	96 hours	ErC50	0.018 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	EC50	0.33 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l

5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.36 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.18 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	NOEL	0.01 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.172 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Bird	Experimental	8 days	LC50	100 ppm diet
2-methyl-2H-isothiazol-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
2-methyl-2H-isothiazol-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Fathead minnow	Experimental	33 days	NOEC	2.1 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-methyl-2H-isothiazol-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
POLY(dimethylsiloxane)	63148-62-9	Data not available-insufficient	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	Data not available-insufficient	N/A	N/A	N/A	N/A
2,2',2"-Nitrilotriethanol	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 %removal of DOC	similar to OECD 301E
BENZALDEHYDE	100-52-7	Experimental Biodegradation	14 days	BOD	66 %BOD/ThOD	OECD 301C - MITI test (I)
Diethanolamine	111-42-2	Experimental Biodegradation	28 days	BOD	93 %BOD/ThOD	OECD 301F - Manometric respirometry
Diethanolamine	111-42-2	Experimental Biodegradation	9 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
5-chloro-2-methyl-4-isothiazoline-3-	26172-55-4	Experimental Aquatic Inherent	2 days	BOD	97 %BOD/COD	OECD 302B Zahn-Wellens/EVPA

one		Biodegrad.				
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Biodegradation	28 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution	similar to OECD 301B
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life basic pH	13 days (t 1/2)	OECD 111 Hydrolysis func of pH
2-methyl-2H-isothiazol-3-one	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-methyl-2H-isothiazol-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
POLY(dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2,2',2"-Nitrilotriethanol	102-71-6	Experimental BCF - Fish	42 days	Bioaccumulation factor	<3.9	similar to OECD 305
BENZALDEHYDE	100-52-7	Experimental Bioconcentration		Log Kow	1.4	OECD 117 log Kow HPLC method
Diethanolamine	111-42-2	Experimental Bioconcentration		Log Kow	-2.18	OECD 107 log Kow shke flsk mtd
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Bioconcentration		Log Kow	0.45	
2-methyl-2H-isothiazol-3-one	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	5.75	
2-methyl-2H-isothiazol-3-one	2682-20-4	Experimental Bioconcentration		Log Kow	-0.486	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal 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.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
The Product is classified as Non-Hazardous.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 09: Vapor Density Value information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14: Proper Shipping Name n.o.s. ingredients information was deleted.

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Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
3M Tyre Dresser

Product Identification Numbers
IA-2601-0191-9 IA-2601-0192-7 IA-2601-0217-2 IA-2601-0446-7 IA-2601-0447-5 IA-2601-0521-7

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Castrol Cobranded product range of pro-care

1.3. Supplier's details
Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Skin Sensitizer: Category 1A.
Acute Aquatic Toxicity: Category 3.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements
Signal Word
Warning

Symbols
Exclamation mark |

Pictograms



HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

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

Prevention:

P280E	Wear protective gloves.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Disposal:

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

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Water	7732-18-5	60 - 90
POLY(dimethylsiloxane)	63148-62-9	10 - 30
Glycerol	56-81-5	1 - 10
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	0.1 - 1.5
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
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

Allergic skin reaction (redness, swelling, blistering, and itching).

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

SECTION 5: Fire-fighting measures

5.1. Suitable 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

Substance	Condition
Hydrocarbons.	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.

5.3. Special protective actions 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
Use PPE - Exposure Assessment Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

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 in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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: Polymer laminate

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

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Emulsion

Color	Milky White
Odor	Cherry
Odour threshold	*No data available.*
pH	6 - 8
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	*No data available.*
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Relative Vapor Density	*No data available.*
Density	0.95 - 1 g/ml
Relative density	0.95 - 1 [*Ref Std:*WATER=1]
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	80 - 90 %
VOC less H2O & exempt solvents	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Strong oxidising agents.
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation
No known health effects.

Skin contact
Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
POLY(dimethylsiloxane)	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
POLY(dimethylsiloxane)	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
5-chloro-2-methyl-2H-isothiazol-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2-methyl-2H-isothiazol-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
POLY(dimethylsiloxane)	Human and animal	No significant irritation
Glycerol	Rabbit	No significant irritation
5-chloro-2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value

POLY(dimethylsiloxane)	Rabbit	No significant irritation
Glycerol	Rabbit	No significant irritation
5-chloro-2-methyl-2H-isothiazol-3-one	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
POLY(dimethylsiloxane)	Human and animal	Not classified
Glycerol	Guinea pig	Not classified
5-chloro-2-methyl-2H-isothiazol-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
5-chloro-2-methyl-2H-isothiazol-3-one	Human and animal	Not sensitizing

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
POLY(dimethylsiloxane)	In Vitro	Not mutagenic
POLY(dimethylsiloxane)	In vivo	Not mutagenic
5-chloro-2-methyl-2H-isothiazol-3-one	In vivo	Not mutagenic
5-chloro-2-methyl-2H-isothiazol-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
POLY(dimethylsiloxane)	Dermal	Mouse	Not carcinogenic
POLY(dimethylsiloxane)	Ingestion	Mouse	Not carcinogenic
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
5-chloro-2-methyl-2H-isothiazol-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-2H-isothiazol-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
POLY(dimethylsiloxane)	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesis
POLY(dimethylsiloxane)	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesis
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000	2 generation

				mg/kg/day	
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
5-chloro-2-methyl-2H-isothiazol-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-2H-isothiazol-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-2H-isothiazol-3-one	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
5-chloro-2-methyl-2H-isothiazol-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
POLY(dimethylsiloxane)	Ingestion	eyes	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	heart | liver | kidney and/or bladder | vascular system	Not classified	Rat	NOAEL 1%	90 days
Glycerol	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years

Aspiration Hazard
For the component/components, either no data are currently available or the data are 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.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
POLY(dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerol	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Diatom	Experimental	72 hours	EbC50	0.021 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Green algae	Experimental	96 hours	ErC50	0.018 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	EC50	0.33 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.36 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.18 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Diatom	Experimental	72 hours	NOEL	0.01 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.172 mg/l
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Bird	Experimental	8 days	LC50	100 ppm diet

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
POLY(dimethylsiloxane)	63148-62-9	Data not available-insufficient	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	Data not available-insufficient	N/A	N/A	N/A	N/A
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Experimental Aquatic Inherent Biodegrad.	2 days	BOD	97 %BOD/COD	OECD 302B Zahn-Wellens/EVPA

5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Experimental Biodegradation	28 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution	similar to OECD 301B
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life basic pH	13 days (t 1/2)	OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Nbr	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
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
Poly(oxy-1,2-ethanediyl), .alpha.-decyl-.omega.-hydroxy-	26183-52-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	Experimental Bioconcentration		Log Kow	0.45	

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal 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.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable

Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
Product is classified as Non Hazardous.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 1: Product identification numbers information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 09: Vapor Density Value information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12:Bioccumulative potential information information was modified.

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Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
Premium Liquid Wax

Product Identification Numbers

IA-1601-3196-6	IA-2601-0114-1	IA-2601-0159-6	IA-2601-0172-9	IA-2601-0226-3
IA-2601-0289-1	IA-2601-0331-1	IA-2601-0379-0	IA-2601-0380-8	IA-2601-0391-5
IA-2601-0392-3	IA-2601-0393-1	IA-2601-0394-9	IA-2601-0396-4	IA-2601-0413-7
IA-2601-0414-5	IA-2601-0443-4	IA-2601-0449-1	IA-2601-0507-6	IA-2601-0509-2
IA-2601-0551-4	IA-2601-0552-2	IA-2601-0553-0		

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Auto polish for external paint surface

1.3. Supplier's details
Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Skin Corrosion/Irritation: Category 3.
Skin Sensitizer: Category 1A.
Carcinogenicity: Category 2.
Reproductive Toxicity: Category 2.
Aspiration Hazard: Category 1.

Acute Aquatic Toxicity: Category 1.
Chronic Aquatic Toxicity: Category 2.

2.2. Label elements
Signal Word
Danger

Symbols
Exclamation mark |Health Hazard |Environment |

Pictograms



HAZARD STATEMENTS:

H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
General:

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

Prevention:

P273	Avoid release to the environment.
P280E	Wear protective gloves.

Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.

Storage:

P405	Store locked up.

Disposal:

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

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Water	7732-18-5	70 - 80
Kaolin, calcined	92704-41-1	3 - 7
Kerosine (petroleum)	8008-20-6	1 - 5
Glycerol	56-81-5	1 - 5
Distillates (petroleum), hydrotreated light	64742-47-8	1 - 5
POLY(dimethylsiloxane)	63148-62-9	1 - 3
White mineral oil (petroleum)	8042-47-5	1 - 3
Diethanolamine	111-42-2	< 0.3
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	< 0.3
2-Octyl-3(2H)-Isothiazolone	26530-20-1	< 0.3
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	< 0.1
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	< 0.1
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.1
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	< 0.1

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
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
Do not induce vomiting. Get immediate medical attention.

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

Allergic skin reaction (redness, swelling, blistering, and itching). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing).

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

SECTION 5: Fire-fighting measures

5.1. Suitable 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

Substance	Condition
Hydrocarbons.	During combustion.

Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.
Oxides of nitrogen.	During combustion.

5.3. Special protective actions 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 vapors, in accordance with good industrial hygiene practice. Use PPE - Exposure Assessment

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

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

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from oxidising agents.

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
Diethanolamine	111-42-2	ACGIH	TWA(inhalable fraction and vapor):1 mg/m3	A3: Confirmed animal carcin., Danger of cutaneous absorption
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	64742-47-8	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

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: Polymer laminate

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

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates, including oily mists

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Color	Light Green
Odor	Characteristic Odour
Odour threshold	*No data available.*
pH	7.5
Melting point/Freezing point: NA	*No data available.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	*No data available.*
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Vapour pressure	*No data available.*
Relative Vapor Density	*No data available.*
Density	1 - 1.2 g/ml
Relative density	1 - 1.2 [*Ref Std:*WATER=1]
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	*Not applicable.*
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

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 localized redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

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

Ingestion
Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Kaolin, calcined	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.07 mg/l
Kaolin, calcined	Dermal	similar compounds	LD50 > 5,000 mg/kg
Kaolin, calcined	Ingestion	similar compounds	LD50 > 5,000 mg/kg

Kerosine (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Kerosine (petroleum)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Kerosine (petroleum)	Inhalation-Vapor (4 hours)	Rat	LC50 > 5 mg/l
Kerosine (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Distillates (petroleum), hydrotreated light	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3 mg/l
Distillates (petroleum), hydrotreated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Dermal	similar compounds	LD50 > 2,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
POLY(dimethylsiloxane)	Dermal	Multiple animal species	LD50 > 2,000 mg/kg
POLY(dimethylsiloxane)	Ingestion	Rat	LD50 > 5,000 mg/kg
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
ETHOXYLATED C12-C14 ALCOHOLS	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	Rat	LD50 > 2,000 mg/kg
2-Octyl-3(2H)-Isothiazolone	Dermal	Rabbit	LD50 311 mg/kg
2-Octyl-3(2H)-Isothiazolone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.27 mg/l
2-Octyl-3(2H)-Isothiazolone	Ingestion	Rat	LD50 125 mg/kg
Diethanolamine	Dermal	Rabbit	LD50 8,180 mg/kg
Diethanolamine	Ingestion	Rat	LD50 1,410 mg/kg
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	Mouse	LD50 567 mg/kg
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	Rat	LD50 > 2,000 mg/kg
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.16 mg/l
2-Methyl-4-isothiazoline-3-one	Dermal	Rat	LD50 242 mg/kg
2-Methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 120 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Rabbit	LD50 87 mg/kg
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	LD50 40 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

Kaolin, calcined	Rabbit	No significant irritation
Kerosine (petroleum)	Rabbit	Minimal irritation
Distillates (petroleum), hydrotreated light	Rabbit	Irritant
Glycerol	Rabbit	No significant irritation
POLY(dimethylsiloxane)	Human and animal	No significant irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
ETHOXYLATED C12-C14 ALCOHOLS	Rabbit	Irritant
2-Octyl-3(2H)-Isothiazolone	Rabbit	Corrosive
Diethanolamine	Rabbit	Irritant
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Kaolin, calcined	Rabbit	No significant irritation
Kerosine (petroleum)	Rabbit	No significant irritation
Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
Glycerol	Rabbit	No significant irritation
POLY(dimethylsiloxane)	Rabbit	No significant irritation
White mineral oil (petroleum)	Rabbit	Mild irritant
ETHOXYLATED C12-C14 ALCOHOLS	Rabbit	Corrosive
2-Octyl-3(2H)-Isothiazolone	similar health hazards	Corrosive
Diethanolamine	Rabbit	Corrosive
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	similar health hazards	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
Kerosine (petroleum)	Guinea pig	Not classified
Distillates (petroleum), hydrotreated light	Guinea pig	Not classified
Glycerol	Guinea pig	Not classified
POLY(dimethylsiloxane)	Human and animal	Not classified
White mineral oil (petroleum)	Guinea pig	Not classified
ETHOXYLATED C12-C14 ALCOHOLS	Guinea pig	Not classified
2-Octyl-3(2H)-Isothiazolone	Human and animal	Sensitising
Diethanolamine	Human and animal	Not classified
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Human	Sensitising

	and animal	
2-Methyl-4-isothiazoline-3-one	Human and animal	Sensitising
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Sensitising
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Human and animal	Sensitising

Photosensitisation

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

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Kerosine (petroleum)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Kerosine (petroleum)	In vivo	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated light	In Vitro	Not mutagenic
POLY(dimethylsiloxane)	In Vitro	Not mutagenic
POLY(dimethylsiloxane)	In vivo	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
ETHOXYLATED C12-C14 ALCOHOLS	In Vitro	Not mutagenic
2-Octyl-3(2H)-Isothiazolone	In Vitro	Not mutagenic
2-Octyl-3(2H)-Isothiazolone	In vivo	Not mutagenic
Diethanolamine	In Vitro	Not mutagenic
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	In Vitro	Not mutagenic
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
5-chloro-2-methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	In vivo	Not mutagenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Kerosine (petroleum)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated light	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

POLY(dimethylsiloxane)	Dermal	Mouse	Not carcinogenic
POLY(dimethylsiloxane)	Ingestion	Mouse	Not carcinogenic
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic
Diethanolamine	Dermal	Mouse	Carcinogenic.
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Dermal	Mouse	Not carcinogenic
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Kerosine (petroleum)	Dermal	Not classified for female reproduction	Rat	NOAEL 494 mg/kg/day	premating & during gestation
Kerosine (petroleum)	Dermal	Not classified for male reproduction	Rat	NOAEL 494 mg/kg/day	premating & during gestation
Kerosine (petroleum)	Dermal	Not classified for development	Rat	NOAEL 494 mg/kg/day	premating & during gestation
Kerosine (petroleum)	Inhalation	Not classified for development	Rat	NOAEL 400 ppm	during organogenesis
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
POLY(dimethylsiloxane)	Ingestion	Not classified for development	Rat	NOAEL 3,800 mg/kg/day	during organogenesis
POLY(dimethylsiloxane)	Dermal	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during organogenesis
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
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
2-Octyl-3(2H)-Isothiazolone	Ingestion	Not classified for development	Rabbit	NOEL 20	during

				mg/kg/day	organogenesis
Diethanolamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
Diethanolamine	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
Diethanolamine	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
Diethanolamine	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	Not classified for female reproduction	Rat	NOAEL 67 mg/kg/day	2 generation
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	Not classified for male reproduction	Rat	NOAEL 62 mg/kg/day	2 generation
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	Not classified for development	Rabbit	NOAEL 44 mg/kg/day	during gestation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Kerosine (petroleum)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL not available	occupational exposure
Kerosine (petroleum)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL not available	
Kerosine (petroleum)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL not available	poisoning and/or abuse
Kerosine (petroleum)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL not available	not applicable
Kerosine (petroleum)	Ingestion	liver	Not classified	Rat	LOAEL 18,912 mg/kg	not applicable
Kerosine (petroleum)	Ingestion	heart | hematoppoitic system	Not classified	Human	NOAEL not available	poisoning and/or abuse
Distillates (petroleum), hydrotreated light	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Distillates (petroleum), hydrotreated light	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Distillates (petroleum), hydrotreated light	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional	NOAEL Not available	

				judgement		
ETHOXYLATED C12-C14 ALCOHOLS	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Octyl-3(2H)-Isothiazolone	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	
Diethanolamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	
Diethanolamine	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	
Diethanolamine	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	
2-Methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Kaolin, calcined	Inhalation	pneumoconiosis	Not classified	similar compounds	NOAEL not available	occupational exposure
Kerosine (petroleum)	Dermal	hematopoietic system	Not classified	Mouse	NOAEL 500 mg/kg/day	13 weeks
Kerosine (petroleum)	Dermal	liver	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	immune system	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	kidney and/or bladder	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	nervous system	Not classified	Mouse	NOAEL 2,700 mg/kg/day	1 weeks
Kerosine (petroleum)	Dermal	heart	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	gastrointestinal tract	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	muscles	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	respiratory system	Not classified	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL not available	1 years
Kerosine (petroleum)	Inhalation	liver	Not classified	Rat	NOAEL 0.231 mg/l	14 weeks
Kerosine (petroleum)	Inhalation	heart	Not classified	Guinea pig	LOAEL 20.4 mg/l	not available
Kerosine (petroleum)	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 0.1 mg/l	13 weeks
Kerosine (petroleum)	Inhalation	hematopoietic system	Not classified	Multiple animal species	NOAEL 0.1 mg/l	13 weeks

Kerosine (petroleum)	Inhalation	muscles	Not classified	Multiple animal species	NOAEL 0.1 mg/l	13 weeks
Kerosine (petroleum)	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.1 mg/l	13 weeks
Glycerol	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
POLY(dimethylsiloxane)	Ingestion	eyes	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	respiratory system	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10%	90 days
POLY(dimethylsiloxane)	Ingestion	heart	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	liver	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1%	90 days
POLY(dimethylsiloxane)	Ingestion	vascular system	Not classified	Rat	NOAEL 1%	90 days
White mineral oil (petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	liver	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days

ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
ETHOXYLATED C12-C14 ALCOHOLS	Ingestion	vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	29 days
Diethanolamine	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 63 mg/kg/day	13 weeks
Diethanolamine	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	skin	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
Diethanolamine	Dermal	heart	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	muscles	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	eyes	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	liver	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.015 mg/l	13 weeks
Diethanolamine	Inhalation	heart	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	skin	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	immune system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks

Diethanolamine	Inhalation	muscles	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	nervous system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	eyes	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	vascular system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	13 weeks
Diethanolamine	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
Diethanolamine	Ingestion	endocrine system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	heart	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	skin	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	immune system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	muscles	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	eyes	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	respiratory system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	vascular system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	skin	Not classified	Rat	NOAEL 3 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	endocrine system	Not classified	Rat	NOAEL 15 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	hematopoietic system	Not classified	Rat	NOAEL 15 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	nervous system	Not classified	Rat	NOAEL 15 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Dermal	eyes	Not classified	Rat	NOAEL 15 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.02 mg/m³	13 weeks
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6.72 mg/m³	13 weeks
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 20 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	endocrine system	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	liver	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	immune system	Not classified	Rat	NOAEL 100 mg/kg/day	28 days
3(2H)-Isothiazolone, 4,5-	Ingestion	heart	Not classified	Dog	NOAEL 74	90 days

dichloro-2-octyl-					mg/kg/day	
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	Ingestion	eyes	Not classified	Rat	NOAEL 105 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Kerosine (petroleum)	Aspiration hazard
Distillates (petroleum), hydrotreated light	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.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 1: Very toxic to aquatic life.

Chronic aquatic hazard:
GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
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
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
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerol	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Estimated	72 hours	EC50	1 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Rainbow trout	Estimated	96 hours	LL50	2 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Water flea	Estimated	48 hours	EL50	1.4 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Estimated	72 hours	NOEL	1 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Water flea	Estimated	21 days	NOEL	0.48 mg/l
Kerosine (petroleum)	8008-20-6	Green algae	Analogous Compound	72 hours	EL50	11 mg/l
Kerosine (petroleum)	8008-20-6	Rainbow trout	Analogous Compound	96 hours	LL50	2 mg/l
Kerosine	8008-20-6	Water flea	Analogous	48 hours	EL50	1.4 mg/l

(petroleum)			Compound			
Kerosine (petroleum)	8008-20-6	Green algae	Analogous Compound	72 hours	NOEL	2.5 mg/l
Kerosine (petroleum)	8008-20-6	Water flea	Analogous Compound	21 days	NOEL	0.48 mg/l
POLY(dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
White mineral oil (petroleum)	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
White mineral oil (petroleum)	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Diatom	Experimental	72 hours	EC50	0.0015 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Green algae	Experimental	72 hours	EC50	0.084 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Mysid Shrimp	Experimental	96 hours	LC50	0.071 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Rainbow trout	Experimental	96 hours	LC50	0.036 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.18 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Water flea	Experimental	48 hours	EC50	0.42 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Diatom	Experimental	72 hours	NOEC	0.00068 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Green algae	Experimental	72 hours	NOEC	0.0156 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Water flea	Experimental	21 days	NOEC	0.0016 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Activated sludge	Experimental	3 hours	EC50	30.4 mg/l
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Bobwhite quail	Experimental	14 days	LD50	384 ppm diet
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Lettuce	Experimental	17 days	EC50	45 mg/kg (Dry Weight)
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Redworm	Experimental	14 days	LC50	866 mg/kg (Dry Weight)
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Soil microbes	Experimental	28 days	EC50	84.1 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Brine shrimp	Experimental	24 hours	EC50	2,800 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	EC50	86.96 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC50	9.5 mg/l
Diethanolamine	111-42-2	Rainbow trout	Experimental	96 hours	LC50	460 mg/l
Diethanolamine	111-42-2	Sheepshead Minnow	Experimental	96 hours	LC50	>589 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	48 hours	EC50	30.1 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	NOEC	<16 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC10	1.4 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
Diethanolamine	111-42-2	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
Diethanolamine	111-42-2	Plant	Experimental	21 days	EC50	1,632 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Redworm	Experimental	63 days	EC50	776 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Springtail	Experimental	28 days	EC50	4,205 mg/kg (Dry Weight)
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Fathead minnow	Experimental	96 hours	LC50	0.423 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Green algae	Experimental	72 hours	ErC50	0.044 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Water flea	Experimental	48 hours	EC50	0.125 mg/l

ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Green algae	Experimental	72 hours	NOEC	0.037 mg/l
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Wheat	Experimental	19 days	NOEC	>=100 mg/kg (Dry Weight)
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Bacteria	Experimental	5 hours	EC50	>2 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead minnow	Experimental	33 days	NOEC	2.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Activated sludge	Experimental	3 hours	EC50	>5.7 mg/l
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Green algae	Experimental	72 hours	EC50	0.003 mg/l
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Rainbow trout	Experimental	96 hours	LC50	0.0027 mg/l
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Water flea	Experimental	48 hours	EC50	0.001 mg/l
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Water flea	Experimental	21 days	NOEC	0.00063 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	EbC50	0.021 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	96 hours	ErC50	0.018 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	EC50	0.33 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.36 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.18 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	NOEL	0.01 mg/l
5-chloro-2-methyl-	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l

4-isothiazoline-3-one						
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.172 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Bird	Experimental	8 days	LC50	100 ppm diet
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Activated sludge	Experimental	3 hours	NOEC	0.91 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Bacteria	Experimental	16 hours	EC50	5.7 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Copepod	Experimental	48 hours	EC50	0.007 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Diatom	Experimental	72 hours	ErC50	0.0199 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Green algae	Experimental	72 hours	ErC50	0.027 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Sheepshead Minnow	Experimental	96 hours	LC50	0.3 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Water flea	Experimental	48 hours	EC50	0.099 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Diatom	Experimental	48 hours	NOEC	0.00049 mg/l
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Fathead minnow	Experimental	36 days	NOEL	0.02 mg/l
Reaction mass of:	55965-84-9	Green algae	Experimental	72 hours	NOEC	0.004 mg/l

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)						
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Water flea	Experimental	21 days	NOEC	0.004 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Kaolin, calcined	92704-41-1	Data not available-insufficient	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available-insufficient	N/A	N/A	N/A	N/A
Kerosine (petroleum)	8008-20-6	Experimental Biodegradation	28 days	BOD	58.6 %BOD/ThOD	OECD 301F - Manometric respirometry
POLY(dimethylsiloxane)	63148-62-9	Data not available-insufficient	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Experimental Biodegradation	28 days	BOD	< 10 %BOD/ThOD	OECD 301D - Closed bottle test
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Experimental Aquatic Inherent Biodegrad.	59 days	Dissolv. Organic Carbon Deplet	88 %removal of DOC	OECD 303A - Simulated Aerobic
Diethanolamine	111-42-2	Experimental Biodegradation	28 days	BOD	93 %BOD/ThOD	OECD 301F - Manometric respirometry
Diethanolamine	111-42-2	Experimental Biodegradation	9 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Experimental Biodegradation	28 days	BOD	95 %BOD/ThOD	OECD 301F - Manometric respirometry
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Experimental Biodegradation	28 days	CO2 evolution	80 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Aquatic Inherent Biodegrad.	2 days	BOD	97 %BOD/COD	OECD 302B Zahn-Wellens/EVPA
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Biodegradation	28 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution	similar to OECD 301B
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life basic pH	13 days (t 1/2)	OECD 111 Hydrolysis func of pH
Reaction mass of:	55965-84-9	Analogous	29 days	CO2 evolution	62 %CO2	OECD 301B - Modified

5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)		Compound Biodegradation			evolution/THCO2 evolution (does not pass 10-day window)	sturm or CO2
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	> 60 days (t 1/2)	

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Kaolin, calcined	92704-41-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kerosine (petroleum)	8008-20-6	Analogous Compound Bioconcentration		Log Kow	6.3	EC A.8 Partition Coefficient
POLY(dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Octyl-3(2H)-Isothiazolone	26530-20-1	Experimental Bioconcentration		Log Kow	2.92	OECD 117 log Kow HPLC method
Diethanolamine	111-42-2	Experimental Bioconcentration		Log Kow	-2.18	OECD 107 log Kow shke flsk mtd
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Experimental BCF - Fish	72 hours	Bioaccumulation factor	310	
ETHOXYLATED C12-C14 ALCOHOLS	68439-50-9	Experimental Bioconcentration		Log Kow	5.24	OECD 123 log Kow slow stir
2-Methyl-4-isothiazoline-3-one	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	5.75	
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Bioconcentration		Log Kow	-0.486	OECD 107 log Kow shke flsk mtd
3(2H)-Isothiazolone, 4,5-dichloro-2-octyl-	64359-81-5	Experimental BCF - Fish		Bioaccumulation factor	750	
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Bioconcentration		Log Kow	0.45	
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Analogous Compound BCF - Fish	28 days	Bioaccumulation factor	54	OECD305-Bioconcentration
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	55965-84-9	Analogous Compound Bioconcentration		Log Kow	0.4	

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal 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.

SECTION 14: Transport Information

Air Transport (IATA)Regulations

UN No UN3082
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-octyl-2H-isothiazol-3-one)
Hazard Classs/Division 9
Subsidiary Risk Not applicable
Other Dangerous Goods Descriptions: None assigned.

Packing Group: III

Marine Transport (IMDG)
UN No UN3082
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains 2-octyl-2H-isothiazol-3-one)
Hazard Classs/Division 9
Subsidiary Risk Not applicable
Other Dangerous Goods Descriptions: None assigned.

Packing Group: III
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
Product is classified as Non Hazardous as per MSIHC Rules, 1989.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 1: Product identification numbers information was modified.
Label: Symbol information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12:Bioccumulative potential information information was modified.

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Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier
3M CAR CARE Car wash shampoo

Product Identification Numbers
IA-2601-0043-2 IA-2601-0327-9 IA-2601-0343-6 IA-2601-6639-1 IA-2601-6640-9 IA-2701-0192-5

1.2. Recommended use and restrictions on use

Recommended use
Automotive.

1.3. Supplier's details
Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number
080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture
Acute Toxicity (oral): Category 4.
Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.
Acute Aquatic Toxicity: Category 2.
Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal Word
Danger

Symbols
Corrosion | Exclamation mark |

Pictograms



HAZARD STATEMENTS:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

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

Prevention:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280A	Wear eye/face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

Storage:

P405	Store locked up.

Disposal:

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

2.3. Other hazards
None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Sodium dodecyl sulphate	151-21-3	80 - 100
Water	7732-18-5	5 - 10

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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

SECTION 5: Fire-fighting measures

5.1. Suitable 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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	During combustion.
Oxides of sulphur.	During combustion.

5.3. Special protective actions 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 vapors, in accordance with good industrial hygiene practice. Use PPE - Exposure Assessment

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

and 11 of the SDS.

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

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

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:
Full face shield.
Indirect vented goggles.

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: Neoprene.
Nitrile rubber.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Gel
Color	Orange
Odor	Cherry
Odour threshold	*No data available.*
pH	6 - 8
Melting point/Freezing point: NA	*Not applicable.*
Boiling point/Initial boiling point/Boiling range	*No data available.*
Flash point	No flash point
Evaporation rate	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*No data available.*
Relative Vapor Density	*No data available.*
Density	1.08 g/cm3
Relative density	1.08 [*Ref Std:*WATER=1]
Water solubility	Appreciable
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Autoignition temperature	*Not applicable.*
Decomposition temperature	*No data available.*
Kinematic Viscosity	*No data available.*
Volatile organic compounds (VOC)	*No data available.*
Percent volatile	*No data available.*
VOC less H2O & exempt solvents	*No data available.*

Particle Characteristics	*Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
Heat.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

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

Skin contact
Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye contact
Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

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

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Sodium dodecyl sulphate	Ingestion	Rat	LD50 911 mg/kg
Sodium dodecyl sulphate	Dermal	similar compounds	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Sodium dodecyl sulphate	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
Sodium dodecyl sulphate	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
Sodium dodecyl sulphate	similar compounds	Not classified

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Sodium dodecyl sulphate	In Vitro	Not mutagenic
Sodium dodecyl sulphate	In vivo	Not mutagenic

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium dodecyl sulphate	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium dodecyl sulphate	Ingestion	liver	Not classified	Rat	NOAEL 1,840 mg/kg/day	90 days

Aspiration Hazard

For the component/components, either no data are currently available or the data are 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.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:
GHS Acute 2: Toxic to aquatic life.

Chronic aquatic hazard:
GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Sodium dodecyl sulphate	151-21-3	Algae or other aquatic plants	Experimental	96 hours	ErC50	30.2 mg/l
Sodium dodecyl sulphate	151-21-3	Atlantic Silverside	Experimental	96 hours	LC50	2.8 mg/l
Sodium dodecyl sulphate	151-21-3	Bluegill	Experimental	96 hours	LC50	4.5 mg/l
Sodium dodecyl sulphate	151-21-3	Duckweed	Experimental	7 days	EC50	18 mg/l
Sodium dodecyl sulphate	151-21-3	Green algae	Experimental	96 hours	ErC50	117 mg/l
Sodium dodecyl sulphate	151-21-3	Invertebrate	Experimental	48 hours	EC50	1.2 mg/l
Sodium dodecyl sulphate	151-21-3	Fathead minnow	Experimental	42 days	NOEC	1.357 mg/l
Sodium dodecyl sulphate	151-21-3	Green algae	Experimental	96 hours	ErC10	12 mg/l
Sodium dodecyl sulphate	151-21-3	Water flea	Experimental	7 days	NOEC	0.88 mg/l
Sodium dodecyl sulphate	151-21-3	Activated sludge	Experimental	3 hours	EC50	135 mg/l
Sodium dodecyl sulphate	151-21-3	Wheat	Experimental	6 days	EC50	269.6 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Sodium dodecyl sulphate	151-21-3	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	100 %removal of DOC	
Sodium dodecyl sulphate	151-21-3	Experimental Biodegradation	28 days	CO2 evolution	95 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Sodium dodecyl sulphate	151-21-3	Experimental Bioconcentration		Log Kow	0.83	OECD 123 log Kow slow stir

12.4. Mobility in soil
Please contact manufacturer for more details

12.5 Other Adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Disposal 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.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: III

Marine Transport (IMDG)
UN No Not applicable
Proper Shipping Name Not applicable
Hazard Classs/Division Not applicable
Subsidiary Risk Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status
Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations
The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989
Hazardous Waste(Management , Handling & Transboundary) Rules, 2008
Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011
Central Motor Vehicle Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules
None.

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:
MSIHC Rules: Non-hazardous

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:
Section 14: Packing group (IMO) information was modified.
Label: GHS Classification information was modified.
Label: GHS Environmental Hazard Statements information was modified.
Label: GHS Precautionary - Prevention information was modified.
Label: GHS Precautionary - Response information was modified.
Label: Graphic information was modified.
Label: Symbol information was modified.
Section 04: First Aid - Symptoms and Effects (GHS) information was added.
Section 4: First aid for skin contact information information was modified.
Section 5: Fire - Advice for fire fighters information information was modified.
Section 5: Fire - Extinguishing media information information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Precautions safe handling information information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 12: Acute aquatic hazard information information was modified.
Section 14: IATA transport hazard classes information was modified.
Section 14: IMO transport hazard classes information was modified.
Section 14: Proper Shipping Name (IATA) information was modified.
Section 14: Proper Shipping Name (IMO) information was modified.
Section 14: Proper Shipping Name n.o.s. ingredients information was deleted.
Section 14: Transportation Information information was added.
Section 14: UN Number (IATA) information was modified.
Section 14: UN Number (IMO) information was modified.
Section 15: MSIHC Part I of Schedule I ingredients information was modified.

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