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 All in One Shiner

Product Identification Numbers
IA-2601-0037-4 IA-2601-0060-6

1.2. Recommended use and restrictions on use

Recommended use
Automotive., Dresser for plastic/vinyl parts

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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