



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

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

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
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/m ³ (2 ppm);STEL(15 minutes):17.4 mg/m ³ (4 ppm) | Dermal Sensitizer |
| 2,2',2"-Nitrilotriethanol | 102-71-6 | ACGIH | TWA:5 mg/m ³ | |
| Diethanolamine | 111-42-2 | ACGIH | TWA(inhalable fraction and vapor):1 mg/m ³ | 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 | <i>No data available.</i> |
| pH | 7.5 - 8.5 Units not available or not applicable. |
| Melting point/Freezing point: NA | <i>Not applicable.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | <i>Not applicable.</i> |
| Evaporation rate | <i>No data available.</i> |
| Flammability | Not applicable. |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Relative Vapor Density | <i>Not applicable.</i> |
| Density | 0.95 - 1.05 g/cm3 [@ 25 °C] |
| Relative density | <i>Not applicable.</i> |
| Water solubility | Complete |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>Not applicable.</i> |

| | |
|---|---------------------------|
| Decomposition temperature | <i>No data available.</i> |
| Kinematic Viscosity | <i>No data available.</i> |
| Volatile organic compounds (VOC) | <i>No data available.</i> |
| Percent volatile | <i>No data available.</i> |
| VOC less H2O & exempt solvents | <i>No data available.</i> |

| | |
|---------------------------------|------------------------|
| Particle Characteristics | <i>Not applicable.</i> |
|---------------------------------|------------------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

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 Class/Division** Not applicable**Subsidiary Risk** Not applicable**Packing Group:** Not applicable**Marine Transport (IMDG)****UN No** Not applicable**Proper Shipping Name** Not applicable**Hazard Class/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:Biocumulative potential information information was modified.

Section 14: Proper Shipping Name n.o.s. ingredients information was deleted.

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