



Safety Data Sheet

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| | | | |
|---------------------------------------|------------|-------------------------|------------|
| Document group: | 29-4794-3 | Version number: | 15.00 |
| Revision date: | 02/03/2026 | Supersedes date: | 31/01/2023 |
| Transportation version number: | | | |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006) as amended by Regulation (EU) 2020/878

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

51002 DMS General Purpose Body Filler

Product Identification Numbers

UU-0016-3825-1

7100050738

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

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

| | |
|-------------------|---|
| Address: | 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2 |
| Telephone: | +353 1 280 3555 |
| E Mail: | ner-productstewardship@mmm.com |

Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

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:

29-2292-0, 29-5075-6

TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

KIT LABEL

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
Organic Peroxide, Type E - Org. Perox. E; H242
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 2 - Repr. 2; H361d
Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372
Aspiration Hazard, Category 1 - Asp. Tox. 1; H304
Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400
Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Contains:

dibenzoyl peroxide; ethanediol; N,N'-ethylenebis-12-hydroxystearamide; styrene.

HAZARD STATEMENTS:

| | |
|-------|---|
| H226 | Flammable liquid and vapour. |
| H242 | Heating may cause a fire. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H361d | Suspected of damaging the unborn child. |
| H304 | May be fatal if swallowed and enters airways. |

| | |
|------|--|
| H372 | Causes damage to organs through prolonged or repeated exposure: sensory organs. |
| H373 | May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract. |

H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P273 Avoid release to the environment.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.

Storage:

P411 Store at temperatures not exceeding 32 °C.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H304 May be fatal if swallowed and enters airways.

H372 Causes damage to organs through prolonged or repeated exposure: sensory organs.

<=125 ml Precautionary statements

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

EU VOC Directive (2004/42/EC) labelling: 2004/42/EC IIB(b)(250) 100 g/l

Revision information:

Kit Information: CLP Target Organ Hazard Statement information was deleted.
Kit: Component document group number(s) information was modified.
Label: CLP Ingredients - kit components information was modified.
Section 1: Address information was modified.
Section 1: E-mail address information was modified.
Section 2: <125ml Precautionary - Response information was modified.
Label: CLP Precautionary - Response information was modified.
Label: CLP Supplemental Hazard Statements information was deleted.
Label: CLP Target Organ Hazard Statement information was added.



Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 29-2292-0 | Version number: | 12.00 |
| Revision date: | 17/12/2025 | Supersedes date: | 12/12/2025 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

Filler bulk material for 3M 51002

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

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone: +353 1 280 3555
E Mail: ner-productstewardship@mmm.com
Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
 Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
 Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
 Reproductive Toxicity, Category 2 - Repr. 2; H361d
 Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372
 Aspiration Hazard, Category 1 - Asp. Tox. 1; H304

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|------------|----------|-----------|---------|
| styrene | 100-42-5 | 202-851-5 | 10 - 30 |

HAZARD STATEMENTS:

| | |
|-------|---|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H361d | Suspected of damaging the unborn child. |
| H304 | May be fatal if swallowed and enters airways. |
| H372 | Causes damage to organs through prolonged or repeated exposure: sensory organs. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260A | Do not breathe vapours. |
| P280E | Wear protective gloves. |

Response:

| | |
|--------------------|--|
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P331 | Do NOT induce vomiting. |

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

| | |
|-------|---|
| H361d | Suspected of damaging the unborn child. |
| H304 | May be fatal if swallowed and enters airways. |
| H372 | Causes damage to organs through prolonged or repeated exposure: sensory organs. |

<=125 ml Precautionary statements

Prevention:

| | |
|-------|-------------------------|
| P260A | Do not breathe vapours. |
|-------|-------------------------|

| | | | |
|---------------------------------------|--|-------|--------------------|
| N,N'-ethylenebis-12-hydroxystearamide | (CAS-No.) 123-26-2 (EC-No.) 204-613-6 | < 0.5 | Skin Sens. 1, H317 |
|---------------------------------------|--|-------|--------------------|

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

Do not induce vomiting. Get immediate medical attention.

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

The most important symptoms and effects based on the CLP classification include:

Irritation to the skin (localized redness, swelling, itching, and dryness). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Target organ effects. See Section 11 for additional details.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide.

Condition

During combustion.
During combustion.

5.3. Advice for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Cover spill area with a fire-extinguishing foam. 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 using non-sparking tools. Place in a metal 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.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Vapours may travel long distances along the ground or floor to an ignition source and flash back. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe 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.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|-----------------------|------------|-------------------------|---|---------------------|
| styrene | 100-42-5 | Ireland OELs | TWA(8 hours):85 mg/m ³ (20 ppm);STEL(15 minutes):170 mg/m ³ (40 ppm) | |
| Titanium dioxide | 13463-67-7 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ | |
| Talc | 14807-96-6 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):0.8 mg/m ³ | |
| Dusts non-specific | 16389-88-1 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ | |
| Dusts non-specific | 65997-17-3 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m ³ ;TWA(as respirable dust)(8 hours):4 mg/m ³ | |
| Mineral wool | 65997-17-3 | Ireland OELs | TWA(8 hours):5 mg/m ³ (2 fiber/cc) | |
| Oxide glass chemicals | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m ³ ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m ³ | |

Ireland OELs : Ireland. OELs
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Indirect vented goggles.

Applicable Norms/Standards

Use eye protection conforming to EN 16321

Skin/hand protection

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

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

| Material | Thickness (mm) | Breakthrough Time |
|------------------|----------------|-------------------|
| Polymer laminate | >.3 | =>8 hours |

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards

Use gloves tested to EN 374

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 vapours and particulates

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

Applicable Norms/Standards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------|--|
| Physical state | Liquid. |
| Specific Physical Form: | Paste |
| Colour | White |
| Odor | Styrene |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | 145 °C [<i>Details:lit. value of styrene</i>] |
| Flammability | Flammable liquid: Category 3. |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | 31 °C [<i>Test Method:Closed Cup</i>] [<i>Details:lit. value of styrene</i>] |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |

| | |
|---|--|
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | <i>No data available.</i> |
| Water solubility | 240 mg/l [<i>Details:lit. value of styrene</i>] |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | 3.05 [<i>Details:Log value</i>] |
| Vapour pressure | <i>No data available.</i> |
| Density | 1.3 g/cm ³ |
| Relative density | 1.3 [<i>Ref Std:WATER=1</i>] |
| Relative Vapour Density | 3.6 [<i>Details:lit. value of styrene</i>] |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|--------------------------------------|---|
| EU Volatile Organic Compounds | 245 g/l |
| Evaporation rate | 12.4 [<i>Details:lit. value of styrene</i>] |
| Percent volatile | 17.8 % weight [<i>Details:reactive thinner</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.
Sparks and/or flames.

10.5 Incompatible materials

Combustibles.
Strong acids.
Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| Toxic Vapour/Gas | Heat. |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. May cause additional health effects (see below).

Skin contact

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

May be harmful if swallowed.

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:

Single exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Prolonged or repeated exposure by inhalation may cause:

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Ocular effects: Signs/symptoms may include blurred or significantly impaired vision.

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 | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 5,000 mg/kg |

Filler bulk material for 3M 51002

| | | | |
|---------------------------------------|--------------------------------|------------------------|--|
| styrene | Dermal | Rat | LD50 > 2,000 mg/kg |
| styrene | Inhalation-Vapour (4 hours) | Rat | LC50 11.8 mg/l |
| styrene | Ingestion | Rat | LD50 5,000 mg/kg |
| Titanium dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Oxide glass chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Oxide glass chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Dolomite | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Magnesite | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Dolomite | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Magnesite | Ingestion | Rat | LD50 > 2,000 mg/kg |
| N,N'-ethylenebis-12-hydroxystearamide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.05 mg/l |
| N,N'-ethylenebis-12-hydroxystearamide | Ingestion | Rat | LD50 > 2,000 mg/kg |
| N,N'-ethylenebis-12-hydroxystearamide | Dermal | similar health hazards | LD50 Not available |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------|------------------------|---------------------------|
| Talc | Rabbit | No significant irritation |
| styrene | Professional judgement | Mild irritant |
| Titanium dioxide | Rabbit | No significant irritation |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Dolomite | Professional judgement | No significant irritation |
| Magnesite | In vitro data | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------|------------------------|---------------------------|
| Talc | Rabbit | No significant irritation |
| styrene | Professional judgement | Moderate irritant |
| Titanium dioxide | Rabbit | No significant irritation |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Dolomite | Professional judgement | No significant irritation |

| | | |
|-----------|--------|---------------|
| | t | |
| Magnesite | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|---------------------------------------|------------------|----------------|
| styrene | Guinea pig | Not classified |
| Titanium dioxide | Human and animal | Not classified |
| N,N'-ethylenebis-12-hydroxystearamide | Guinea pig | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|------|---------|----------------|
| Talc | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|-----------------------|----------|--|
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| styrene | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| styrene | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide | In Vitro | Not mutagenic |
| Titanium dioxide | In vivo | Not mutagenic |
| Oxide glass chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|------------|-------------------------|--|
| Talc | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| Talc | Inhalation | Rat | Carcinogenic. |
| styrene | Ingestion | Mouse | Carcinogenic. |
| styrene | Inhalation | Human and animal | Carcinogenic. |
| Titanium dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium dioxide | Inhalation | Rat | Carcinogenic. |
| Oxide glass chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---------|------------|--|---------|--------------------|----------------------|
| Talc | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |
| styrene | Ingestion | Not classified for female reproduction | Rat | NOAEL 21 mg/kg/day | 3 generation |
| styrene | Inhalation | Not classified for female reproduction | Rat | NOAEL 2.1 mg/l | 2 generation |
| styrene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.1 | 2 generation |

| | | | | | |
|---------|------------|--------------------------------------|-------------------------|-----------------------------|------------------|
| styrene | Ingestion | Not classified for male reproduction | Rat | mg/l NOAEL 400 mg/kg/day | 60 days |
| styrene | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during gestation |
| styrene | Inhalation | Not classified for development | Multiple animal species | NOAEL 2.1 mg/l | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------------|-----------------------|
| styrene | Inhalation | auditory system | Causes damage to organs | Multiple animal species | LOAEL 4.3 mg/l | not available |
| styrene | Inhalation | liver | Causes damage to organs | Mouse | LOAEL 2.1 mg/l | not available |
| styrene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | occupational exposure |
| styrene | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |
| styrene | Inhalation | endocrine system | Not classified | Rat | NOAEL Not available | not available |
| styrene | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2.1 mg/l | not available |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---------|------------|--|---|-------------------------|----------------------------|-----------------------|
| Talc | Inhalation | pneumoconiosis | Repeated and prolonged exposure to large amounts of talc dust can cause lung injury | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis respiratory system | Not classified | Rat | NOAEL 18 mg/m ³ | 113 weeks |
| styrene | Inhalation | auditory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL not available | occupational exposure |
| styrene | Inhalation | eyes | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| styrene | Inhalation | liver | May cause damage to organs though prolonged or repeated exposure | Mouse | LOAEL 0.85 mg/l | 13 weeks |
| styrene | Inhalation | nervous system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 1.1 mg/l | not available |
| styrene | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.85 mg/l | 7 days |
| styrene | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.6 mg/l | 10 days |
| styrene | Inhalation | respiratory system | Not classified | Multiple animal species | LOAEL 0.09 mg/l | not available |
| styrene | Inhalation | heart gastrointestinal tract bone, teeth, nails, and/or hair muscles kidney and/or bladder | Not classified | Multiple animal species | NOAEL 4.3 mg/l | 2 years |
| styrene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 500 mg/kg/day | 8 weeks |
| styrene | Ingestion | immune system | Some positive data exist, but the data are not sufficient for | Multiple animal | NOAEL Not available | not available |

Filler bulk material for 3M 51002

| | | | classification | species | | |
|-----------------------|------------|-------------------------------|--|---------|---------------------|-----------------------|
| styrene | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 677 mg/kg/day | 6 months |
| styrene | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 600 mg/kg/day | 470 days |
| styrene | Ingestion | heart respiratory system | Not classified | Rat | NOAEL 35 mg/kg/day | 105 weeks |
| Titanium dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Oxide glass chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |

Aspiration Hazard

| Name | Value |
|---------|-------------------|
| styrene | Aspiration hazard |

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|------------------|------------|------------------|---|------------|---------------|------------------------|
| Talc | 14807-96-6 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| styrene | 100-42-5 | Fathead minnow | Experimental | 96 hours | LC50 | 4.02 mg/l |
| styrene | 100-42-5 | Green algae | Experimental | 72 hours | ErC50 | 4.9 mg/l |
| styrene | 100-42-5 | Water flea | Experimental | 48 hours | EC50 | 4.7 mg/l |
| styrene | 100-42-5 | Green algae | Experimental | 96 hours | ErC10 | 0.28 mg/l |
| styrene | 100-42-5 | Water flea | Experimental | 21 days | NOEC | 1.01 mg/l |
| styrene | 100-42-5 | Activated sludge | Experimental | 30 minutes | EC50 | 500 mg/l |
| styrene | 100-42-5 | Redworm | Experimental | 14 days | LC50 | 120 mg/kg (Dry Weight) |
| Titanium dioxide | 13463-67-7 | Activated sludge | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| Titanium dioxide | 13463-67-7 | Fathead minnow | Experimental | 96 hours | LC50 | >100 mg/l |

Filler bulk material for 3M 51002

| | | | | | | |
|---------------------------------------|------------|----------------------|--------------|----------|--------------------------------|--------------|
| Titanium dioxide | 13463-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | NOEC | 5,600 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| Dolomite | 16389-88-1 | Water flea | Estimated | 48 hours | EC50 | 190 mg/l |
| Dolomite | 16389-88-1 | Western Mosquitofish | Estimated | 96 hours | LC50 | >100 mg/l |
| Dolomite | 16389-88-1 | Rainbow trout | Estimated | 21 days | NOEC | >100 mg/l |
| Magnesite | 13717-00-5 | Fathead minnow | Estimated | 96 hours | LC50 | 1,877 mg/l |
| Magnesite | 13717-00-5 | Green algae | Estimated | 72 hours | ErC50 | >41 mg/l |
| Magnesite | 13717-00-5 | Water flea | Estimated | 48 hours | LC50 | 486 mg/l |
| Magnesite | 13717-00-5 | Green algae | Estimated | 72 hours | NOEC | 41 mg/l |
| Magnesite | 13717-00-5 | Water flea | Estimated | 21 days | EC10 | 284 mg/l |
| Magnesite | 13717-00-5 | Activated sludge | Estimated | 3 hours | EC50 | >373 mg/l |
| N,N'-ethylenebis-12-hydroxystearamide | 123-26-2 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| N,N'-ethylenebis-12-hydroxystearamide | 123-26-2 | Rainbow trout | Estimated | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| N,N'-ethylenebis-12-hydroxystearamide | 123-26-2 | Water flea | Estimated | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| N,N'-ethylenebis-12-hydroxystearamide | 123-26-2 | Green algae | Estimated | 72 hours | No tox obs at lmt of water sol | 100 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---------------------------------------|------------|--------------------------------------|----------|--------------------------------|-------------------------------------|--------------------------------|
| Talc | 14807-96-6 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| styrene | 100-42-5 | Experimental Biodegradation | 33 days | CO2 evolution | >50 %CO2 evolution/THC O2 evolution | |
| styrene | 100-42-5 | Experimental Biodegradation | 28 days | BOD | 100 %BOD/CO D | ISO 9408 Ult Aerobic Biodeg |
| styrene | 100-42-5 | Experimental Photolysis | | Photolytic half-life (in air) | 6.6 hours (t 1/2) | |
| styrene | 100-42-5 | Experimental Soil Metabolism Aerobic | 112 days | CO2 evolution | 95 %CO2 evolution/THC O2 evolution | |
| Titanium dioxide | 13463-67-7 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Dolomite | 16389-88-1 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Magnesite | 13717-00-5 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| N,N'-ethylenebis-12-hydroxystearamide | 123-26-2 | Estimated Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 22 %removal of DOC | OECD 301D - Closed bottle test |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|-------------------------------------|----------------|---|-----------------|------------------------|--------------------|--------------------------------|
| Talc | 14807-96-6 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| styrene | 100-42-5 | Experimental Aquatic Inherent Biodegrad. | 14 days | BOD | 100 %BOD/Th OD | OECD 302C - Modified MITI (II) |
| styrene | 100-42-5 | Experimental BCF - Fish | | Bioaccumulation factor | 13.5 | |
| styrene | 100-42-5 | Experimental Bioconcentration | | Log Kow | 2.96 | similar to OECD 107 |
| Titanium dioxide | 13463-67-7 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 9.6 | |
| Oxide glass chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Dolomite | 16389-88-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Magnesite | 13717-00-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| N,N'-ethylenebis-12-hydroxysteamide | 123-26-2 | Estimated Bioconcentration | | Bioaccumulation factor | 7.4 | |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|-----------------|----------------|--------------------------|-------------------|--------------------|-----------------|
| styrene | 100-42-5 | Modeled Mobility in Soil | Koc | 370 l/kg | Episuite™ |

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|--|--|--|
| 14.1 UN number or ID number | UN1866 | UN1866 | UN1866 |
| 14.2 UN proper shipping name | RESIN SOLUTION | RESIN SOLUTION | RESIN SOLUTION |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Not Environmentally Hazardous | Not applicable | Not a Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | F1 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient
styrene

CAS Nbr
100-42-5

Classification
Grp. 2A: Probable human carc.

Regulation
International Agency for Research on Cancer

Filler bulk material for 3M 51002

| | | | |
|------------------|------------|-------------------------------|---|
| Talc | 14807-96-6 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Global inventory status

Contact 3M for more information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | |
|------------------------|---|-------------------------|
| | Lower-tier requirements | Upper-tier requirements |
| P5c FLAMMABLE LIQUIDS* | 5000 | 50000 |

*If maintained at a temperature above its boiling point or if particular processing conditions, such as high pressure or high temperature, may create major-accident hazards, P5a or P5b FLAMMABLE LIQUIDS may apply

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

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

SECTION 16: Other information**List of relevant H statements**

| | |
|-------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H372 | Causes damage to organs through prolonged or repeated exposure: sensory organs. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

No revision information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to

satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

3M Ireland MSDSs are available at www.3M.com



Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 29-5075-6 | Version number: | 20.00 |
| Revision date: | 13/10/2025 | Supersedes date: | 26/03/2024 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3M Blue Cream Hardener for DMS

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

Identified uses

Automotive.

1.3. Details of the supplier of the safety data sheet

| | |
|-------------------|---|
| Address: | 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2 |
| Telephone: | +353 1 280 3555 |
| E Mail: | ner-productstewardship@mmm.com |
| Website: | www.3M.com |

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

Organic Peroxide, Type E - Org. Perox. E; H242

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Skin Sensitization, Category 1 - Skin Sens. 1; H317

Specific Target Organ Toxicity-Repeated Exposure, Category 2 - STOT RE 2; H373

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400

Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

For full text of H phrases, see Section 16.

2.2. Label elements**CLP REGULATION (EC) No 1272/2008****SIGNAL WORD**

WARNING.

Symbols

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms**Ingredients:**

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--------------------|----------|-----------|---------|
| dibenzoyl peroxide | 94-36-0 | 202-327-6 | 30 - 60 |
| ethanediol | 107-21-1 | 203-473-3 | 3 - 15 |

HAZARD STATEMENTS:

| | |
|------|--|
| H242 | Heating may cause a fire. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H373 | May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract. |
| H410 | Very toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS**Prevention:**

| | |
|-------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P234 | Keep only in original packaging. |
| P260G | Do not breathe vapours or dust. |
| P280B | Wear protective gloves and eye/face protection. |

Storage:

| | |
|------|--|
| P403 | Store in a well-ventilated place. |
| P411 | Store at temperatures not exceeding 32 °C. |

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:**<=125 ml Hazard statements**

| | |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
|------|--------------------------------------|

<=125 ml Precautionary statements**Prevention:**

| | |
|-------|---|
| P280B | Wear protective gloves and eye/face protection. |
|-------|---|

2.3. Other hazards

None known.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------|--|---------|--|
| dibenzoyl peroxide | (CAS-No.) 94-36-0 (EC-No.) 202-327-6 | 30 - 60 | Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=10 |
| Water | (CAS-No.) 7732-18-5 (EC-No.) 231-791-2 | 10 - 30 | Substance not classified as hazardous |
| Isodecyl benzoate | (CAS-No.) 131298-44-7 (EC-No.) ELINCS 421-090-1 | 10 - 30 | Substance not classified as hazardous |
| ethanediol | (CAS-No.) 107-21-1 (EC-No.) 203-473-3 (REACH-No.) 01-2119456816-28 | 3 - 15 | Acute Tox. 4, H302 STOT RE 2, H373 |
| Zinc Stearate | (CAS-No.) 557-05-1 (EC-No.) 209-151-9 | 1 - 5 | Substance with a national occupational exposure limit |
| Calcium sulphate | (CAS-No.) 7778-18-9 (EC-No.) 231-900-3 | 1 - 5 | Substance with a national occupational exposure limit |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

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. Remove contact lenses if easy to do. Continue rinsing. Get medical

attention.

If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision). Target organ effects. See Section 11 for additional details.

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

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode. Part of the oxygen for combustion is supplied by the peroxide itself.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Contain spill. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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

For industrial/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe 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.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store at temperatures not exceeding 32C/90F. Keep cool. Keep only in original container. Store away from acids. Store separately. Keep/store away from clothing and other combustible materials. Store away from amines.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|--------------------|----------------|---------------|--|----------------------------|
| ethanediol | 107-21-1 | Ireland OELs | TWA(8 hours):52 mg/m3(20 ppm);TWA(8 hours):20 ppm(52 mg/m3);STEL(15 minutes):104 mg/m3(40 ppm);STEL(15 minutes):40 ppm(104 mg/m3) | SKIN |
| Zinc Stearate | 557-05-1 | Ireland OELs | TWA(Total inhalable dust)(8 hours):10 mg/m3;TWA(as respirable dust)(8 hours):4 mg/m3;STEL(Total inhalable dust)(15 minutes):20 mg/m3 | |
| Calcium sulphate | 7778-18-9 | Ireland OELs | TWA(8 hours):10 mg/m3 | |
| dibenzoyl peroxide | 94-36-0 | Ireland OELs | TWA(8 hours):5 mg/m3 | |

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls**8.2.1. Engineering controls**

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Indirect vented goggles.

Applicable Norms/Standards

Use eye protection conforming to EN 166

Skin/hand protection

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

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

| Material | Thickness (mm) | Breakthrough Time |
|------------------|-------------------|-------------------|
| Polymer laminate | No data available | No data available |

Applicable Norms/Standards

Use gloves tested to EN 374

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.

The following protective clothing material(s) are also recommended:

Respiratory protection

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

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

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

Applicable Norms/Standards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------|---------------------------|
| Physical state | Solid. Thick Paste |
| Specific Physical Form: | Paste |
| Colour | Blue |
| Odor | Mild Peroxide |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>No data available.</i> |
| Boiling point/boiling range | <i>No data available.</i> |
| Flammability | Organic Peroxide: Type E. |

| | |
|---|--|
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Flash point | No flash point |
| Autoignition temperature | 50 °C [<i>Details:SADT</i>] |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | 80,645 mm ² /sec |
| Water solubility | Nil |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | 100 Pa [<i>@ 20 °C</i>] |
| Density | 1.16 - 1.24 g/ml [<i>@ 20 °C</i>] |
| Relative density | 1.16 - 1.24 [<i>Ref Std:WATER=1</i>] |
| Relative Vapour Density | <i>No data available.</i> |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

No data available.

Percent volatile

11 - 30 % weight

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.

Sparks and/or flames.

10.5 Incompatible materials

Accelerators

Alkali and alkaline earth metals.

Amines.

Reducing agents.

Strong acids.

10.6 Hazardous decomposition products

Substance

Carbon monoxide

Carbon dioxide.

Condition

Not specified.

Not specified.

SECTION 11: Toxicological information

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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

Vapours released during curing may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

May be harmful in contact with skin. 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

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

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Cardiac effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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 >2,000 - =5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| dibenzoyl peroxide | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| dibenzoyl peroxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 24.3 mg/l |
| dibenzoyl peroxide | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Isodecyl benzoate | Dermal | Rabbit | LD50 > 2,000 mg/kg |

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| | | | |
|-------------------|--------------------------------|------------------------|------------------------------------|
| Isodecyl benzoate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.5 mg/l |
| Isodecyl benzoate | Ingestion | Rat | LD50 > 5,000 mg/kg |
| ethanediol | Ingestion | Human | LD50 1,600 mg/kg |
| ethanediol | Inhalation-Dust/Mist (4 hours) | Other | LC50 estimated to be 5 - 12.5 mg/l |
| ethanediol | Dermal | Rabbit | 9,530 mg/kg |
| Zinc Stearate | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Calcium sulphate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 2.61 mg/l |
| Calcium sulphate | Ingestion | Rat | LD50 > 1,581 mg/kg |
| Zinc Stearate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Zinc Stearate | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Calcium sulphate | Dermal | similar health hazards | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------|---------|---------------------------|
| dibenzoyl peroxide | Rabbit | Minimal irritation |
| Isodecyl benzoate | Rabbit | Minimal irritation |
| ethanediol | Rabbit | Minimal irritation |
| Calcium sulphate | Rabbit | No significant irritation |
| Zinc Stearate | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------|---------|---------------------------|
| dibenzoyl peroxide | Rabbit | Severe irritant |
| Isodecyl benzoate | Rabbit | Mild irritant |
| ethanediol | Rabbit | Mild irritant |
| Calcium sulphate | Rabbit | Mild irritant |
| Zinc Stearate | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--------------------|------------------|----------------|
| dibenzoyl peroxide | Human and animal | Sensitising |
| Isodecyl benzoate | Guinea pig | Not classified |
| ethanediol | Human | Not classified |
| Calcium sulphate | Guinea pig | Not classified |
| Zinc Stearate | Human | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------|----------|---------------|
| dibenzoyl peroxide | In Vitro | Not mutagenic |
| dibenzoyl peroxide | In vivo | Not mutagenic |

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| | | |
|-------------------|----------|---------------|
| Isodecyl benzoate | In Vitro | Not mutagenic |
| Isodecyl benzoate | In vivo | Not mutagenic |
| ethanediol | In Vitro | Not mutagenic |
| ethanediol | In vivo | Not mutagenic |
| Calcium sulphate | In Vitro | Not mutagenic |
| Calcium sulphate | In vivo | Not mutagenic |
| Zinc Stearate | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------|-----------|-------------------------|--|
| dibenzoyl peroxide | Ingestion | Multiple animal species | Not carcinogenic |
| dibenzoyl peroxide | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| ethanediol | Ingestion | Multiple animal species | Not carcinogenic |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| dibenzoyl peroxide | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| dibenzoyl peroxide | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | prematuring & during gestation |
| dibenzoyl peroxide | Ingestion | Not classified for development | Rat | NOAEL 300 mg/kg/day | during gestation |
| Isodecyl benzoate | Ingestion | Not classified for female reproduction | Rat | NOAEL 641 mg/kg/day | 2 generation |
| Isodecyl benzoate | Ingestion | Not classified for male reproduction | Rat | NOAEL 676 mg/kg/day | 2 generation |
| Isodecyl benzoate | Ingestion | Not classified for development | Rat | NOAEL 191 mg/kg/day | 2 generation |
| ethanediol | Dermal | Not classified for development | Mouse | NOAEL 3,549 mg/kg/day | during organogenesis |
| ethanediol | Ingestion | Not classified for development | Mouse | LOAEL 750 mg/kg/day | during organogenesis |
| ethanediol | Inhalation | Not classified for development | Mouse | NOAEL 1,000 mg/kg/day | during organogenesis |
| Calcium sulphate | Ingestion | Not classified for female reproduction | Rat | NOAEL 790 mg/kg/day | prematuring into lactation |
| Calcium sulphate | Ingestion | Not classified for male reproduction | Rat | NOAEL 790 mg/kg/day | 35 days |
| Calcium sulphate | Ingestion | Not classified for development | Multiple animal species | NOAEL 1,600 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 |
|--------------------|------------|--|--|------------------------|---------------------|------------------------|
| dibenzoyl peroxide | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| ethanediol | Ingestion | heart nervous system kidney and/or bladder | Causes damage to organs | Human | NOAEL Not available | poisoning and/or abuse |

| | | | | | | |
|------------|-----------|-----------------------------------|-----------------------------------|-------|---------------------|------------------------|
| | | respiratory system | | | | |
| ethanediol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| ethanediol | Ingestion | liver | Not classified | Human | NOAEL Not available | poisoning and/or abuse |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------|-----------|--|--|-------------------------|------------------------|-------------------|
| dibenzoyl peroxide | Dermal | skin | Not classified | Rat | LOAEL 11 mg/kg/day | 2 years |
| dibenzoyl peroxide | Dermal | liver nervous system kidney and/or bladder | Not classified | Rat | NOAEL 100 mg/kg/day | 2 years |
| dibenzoyl peroxide | Ingestion | endocrine system hematopoietic system liver immune system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Isodecyl benzoate | Ingestion | heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system | Not classified | Rat | NOAEL 619 mg/kg/day | 91 days |
| ethanediol | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 200 mg/kg/day | 2 years |
| ethanediol | Ingestion | vascular system | Not classified | Rat | NOAEL 200 mg/kg/day | 2 years |
| ethanediol | Ingestion | heart hematopoietic system liver immune system muscles | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| ethanediol | Ingestion | respiratory system | Not classified | Mouse | NOAEL 12,000 mg/kg/day | 2 years |
| ethanediol | Ingestion | skin endocrine system bone, teeth, nails, and/or hair nervous system eyes | Not classified | Multiple animal species | NOAEL 1,000 mg/kg/day | 2 years |
| Calcium sulphate | Ingestion | liver kidney and/or bladder heart endocrine system gastrointestinal tract hematopoietic system immune system nervous system respiratory system | Not classified | Rat | NOAEL 790 mg/kg/day | 35 days |
| Zinc Stearate | Ingestion | heart endocrine system gastrointestinal tract hematopoietic system liver immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

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|--|--|--|--|--|--|--|
| | | nervous system eyes kidney and/or bladder respiratory system | | | | |
|--|--|--|--|--|--|--|

Aspiration Hazard

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

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

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

12.1. Toxicity

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|--------------------|-------------|------------------|--------------|------------|--------------------------------|---------------------------|
| dibenzoyl peroxide | 94-36-0 | Green algae | Experimental | 72 hours | EC50 | 0.071 mg/l |
| dibenzoyl peroxide | 94-36-0 | Rainbow trout | Experimental | 96 hours | LC50 | 0.06 mg/l |
| dibenzoyl peroxide | 94-36-0 | Water flea | Experimental | 48 hours | EC50 | 0.11 mg/l |
| dibenzoyl peroxide | 94-36-0 | Green algae | Experimental | 72 hours | NOEC | 0.02 mg/l |
| dibenzoyl peroxide | 94-36-0 | Water flea | Experimental | 21 days | EC10 | 0.001 mg/l |
| dibenzoyl peroxide | 94-36-0 | Activated sludge | Experimental | 30 minutes | EC50 | 35 mg/l |
| dibenzoyl peroxide | 94-36-0 | Redworm | Experimental | 14 days | LC50 | >1,000 mg/kg (Dry Weight) |
| dibenzoyl peroxide | 94-36-0 | Soil microbes | Experimental | 28 days | EC50 | 2,300 mg/kg (Dry Weight) |
| Isodecyl benzoate | 131298-44-7 | Green algae | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Fathead minnow | Experimental | 33 days | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Green algae | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Midge | Experimental | 28 days | NOEC | 64.7 mg/kg (Dry Weight) |
| Isodecyl benzoate | 131298-44-7 | Water flea | Experimental | 21 days | No tox obs at lmt of water sol | >100 mg/l |
| Isodecyl benzoate | 131298-44-7 | Activated sludge | Experimental | 3 hours | EC50 | >100 mg/l |
| ethanediol | 107-21-1 | Bacteria | Experimental | 16 hours | EC50 | 10,000 mg/l |

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| | | | | | | |
|------------------|-----------|-------------------------------|--------------|----------|--------------------------------|-------------|
| ethanediol | 107-21-1 | Fathead minnow | Experimental | 96 hours | LC50 | 8,050 mg/l |
| ethanediol | 107-21-1 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| ethanediol | 107-21-1 | Water flea | Experimental | 48 hours | EC50 | >1,100 mg/l |
| ethanediol | 107-21-1 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| ethanediol | 107-21-1 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| Calcium sulphate | 7778-18-9 | Activated sludge | Estimated | 3 hours | NOEC | 1,000 mg/l |
| Calcium sulphate | 7778-18-9 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 3,200 mg/l |
| Calcium sulphate | 7778-18-9 | Bluegill | Experimental | 96 hours | LC50 | >2,980 mg/l |
| Calcium sulphate | 7778-18-9 | Water flea | Experimental | 48 hours | LC50 | >1,970 mg/l |
| Calcium sulphate | 7778-18-9 | Water flea | Estimated | 21 days | NOEC | 1,270 mg/l |
| Zinc Stearate | 557-05-1 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Zinc Stearate | 557-05-1 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--------------------|-------------|-------------------------------|----------|----------------------|-------------------------------|-------------------------------------|
| dibenzoyl peroxide | 94-36-0 | Experimental Biodegradation | 28 days | BOD | 71 %BOD/ThOD | OECD 301D - Closed bottle test |
| dibenzoyl peroxide | 94-36-0 | Experimental Hydrolysis | | Hydrolytic half-life | 5.2 hours (t _{1/2}) | OECD 111 Hydrolysis func of pH |
| Isodecyl benzoate | 131298-44-7 | Experimental Biodegradation | 28 days | BOD | 77.7 %BOD/ThOD | OECD 301F - Manometric respirometry |
| ethanediol | 107-21-1 | Experimental Biodegradation | 14 days | BOD | 90 %BOD/ThOD | OECD 301C - MITI test (I) |
| Calcium sulphate | 7778-18-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Zinc Stearate | 557-05-1 | Experimental Biodegradation | 28 days | BOD | 14.6 %BOD/ThOD | OECD 301D - Closed bottle test |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--------------------|-------------|---|----------|------------------------|-------------|------------------------------|
| dibenzoyl peroxide | 94-36-0 | Experimental Bioconcentration | | Log Kow | 3.2 | OECD 117 log Kow HPLC method |
| Isodecyl benzoate | 131298-44-7 | Modeled Bioconcentration | | Bioaccumulation factor | 288 | Catalogic™ |
| Isodecyl benzoate | 131298-44-7 | Experimental Bioconcentration | | Log Kow | 4.61 | EC A.8 Partition Coefficient |
| ethanediol | 107-21-1 | Experimental Bioconcentration | | Log Kow | -1.36 | |
| Calcium sulphate | 7778-18-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Zinc Stearate | 557-05-1 | Experimental Bioconcentration | | Log Kow | 4.64 | OECD 117 log Kow HPLC method |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--------------------|-------------|-------------------------------|------------|-------------|--------------------------------|
| dibenzoyl peroxide | 94-36-0 | Experimental Mobility in Soil | Koc | 6,310 l/kg | OECD 121 Estim. of Koc by HPLC |
| Isodecyl benzoate | 131298-44-7 | Modeled Mobility | Koc | 2,600 l/kg | Episuite™ |

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|---------------|----------|-------------------------------|-----|------------|--------------------------------|
| | | in Soil | | | |
| Zinc Stearate | 557-05-1 | Experimental Mobility in Soil | Koc | 1,510 l/kg | OECD 121 Estim. of Koc by HPLC |

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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

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

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|---|---|---|
| 14.1 UN number or ID number | UN3108 | UN3108 | UN3108 |
| 14.2 UN proper shipping name | ORGANIC PEROXIDE TYPE E, SOLID(DIBENZOYL PEROXIDE (AS A PASTE), <= 52%) | ORGANIC PEROXIDE TYPE E, SOLID(DIBENZOYL PEROXIDE (AS A PASTE), <= 52%) | ORGANIC PEROXIDE TYPE E, SOLID(DIBENZOYL PEROXIDE (AS A PASTE), <= 52%; BENZOYL PEROXIDE) |
| 14.3 Transport hazard class(es) | 5.2 | 5.2 | 5.2 |
| 14.4 Packing group | Not applicable. | Not applicable. | Not applicable. |

| | | | |
|---|--|--|--|
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | P1 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient

dibenzoyl peroxide

CAS Nbr

94-36-0

Classification

Gr. 3: Not classifiable

Regulation

International Agency for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

None

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information**List of relevant H statements**

| | |
|------|--|
| H241 | Heating may cause a fire or explosion. |
| H242 | Heating may cause a fire. |
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Revision information:

Section 1: Address information was modified.

Section 1: E-mail address information was modified.

Section 2: <125ml Precautionary - Prevention information was added.

Section 2: <125ml Precautionary - Response information was deleted.

Label: CLP Percent Unknown information was deleted.

Label: CLP Precautionary - Prevention information was modified.

Label: CLP Precautionary - Response information was deleted.

Section 3: Composition/ Information of ingredients table information was modified.

Section 6: Accidental release personal information information was modified.

Section 7: Conditions safe storage information was modified.

Section 08: Personal Protection - Apron Statement information was added.

Section 8: Personal Protection - Skin/body information information was modified.

Section 8: Skin protection - protective clothing information information was deleted.

Section 9: Flammability (solid, gas) information information was deleted.

Section 09: Flammability information information was added.

Section 09: Odor information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

Section 15: Seveso Substance Text information was deleted.

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