# Safety Data Sheet

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| **Document group:** | 18-0079-6 | **Version number:** | 16.00 |
| **Revision date:** | 22/09/2026 | **Supersedes date:** | 01/07/2026 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

**1.1. Product identifier**
3M™ Scotch-Weld™ Structural Adhesive Primer EW-5000

**Product Identification Numbers**
62-3963-6545-4

7100004022

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

**Identified uses**
Corrosion Inhibiting Primer

**1.3. Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Address:** | 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT. |
| **Telephone:** | +44 (0)1344 858 000 |
| **E Mail:** | ner-productstewardship@mmm.com |
| **Website:** | www.3M.com/uk |

**1.4. Emergency telephone number**
+44 (0)1344 858 000

## SECTION 2: Hazard identification

**2.1. Classification of the substance or mixture**
**The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain**

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:**

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
Carcinogenicity, Category 1B - Carc. 1B; H350i
Reproductive Toxicity, Category 1B - Repr. 1B; H360F
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 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

**2.2. Label elements**
**The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain**

**SIGNAL WORD**
DANGER.

**Symbols**
GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

**Pictograms**



| Ingredient | Identifier(s) | EC No. | % by Wt |
|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | | 10 - 20 |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | | 1 - 7 |
| Barium Chromate | 10294-40-3 | 233-660-5 | 1 - 5 |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | | < 3 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | 271-846-8 | < 1 |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | 220-780-8 | 0.1 - 0.5 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H350i | May cause cancer by inhalation. |
| H360F | May damage fertility. |
| H373 | May cause damage to organs through prolonged or repeated exposure: respiratory system. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P260E | Do not breathe vapour or spray. |
| P273 | Avoid release to the environment. |
| P280K | Wear protective gloves and respiratory protection. |

**Response:**

| | |
|---|---|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |

**SUPPLEMENTAL INFORMATION:**

**Supplemental Precautionary Statements:**
Restricted to professional users.

3% of the mixture consists of components of unknown acute inhalation toxicity.
Contains 3% of components with unknown hazards to the aquatic environment.

H226 not applied based on test data.

### 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], as amended for GB |
|---|---|---|---|
| Water | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2 | 50 - 65 | Substance not classified as hazardous |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | (CAS-No.) 25036-25-3 | 10 - 20 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| Phenol-formaldehyde polymer, glycidyl ether | (CAS-No.) 28064-14-4 | 1 - 7 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| Barium Chromate | (CAS-No.) 10294-40-3<br>(EC-No.) 233-660-5 | 1 - 5 | Carc. 1B, H350i<br>STOT RE 1, H372<br>Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |
| 2-(propyloxy)ethanol | (CAS-No.) 2807-30-9<br>(EC-No.) 220-548-6 | 1 - 5 | Acute Tox. 4, H312<br>Eye Irrit. 2, H319<br>Flam. Liq. 3, H226 |
| propan-2-ol | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7 | 1 - 5 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | (CAS-No.) 17526-94-2<br>(EC-No.) 241-523-6 | 1 - 3 | Substance not classified as hazardous |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | (CAS-No.) 28906-96-9 | < 3 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

| | | | |
|---|---|---|---|
| | | | Skin Sens. 1, H317 |
| acetone | (CAS-No.) 67-64-1<br>(EC-No.) 200-662-2 | < 2 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | (CAS-No.) 68609-97-2<br>(EC-No.) 271-846-8 | < 1 | Skin Irrit. 2, H315<br>Skin Sens. 1A, H317<br>Repr. 1B, H360F |
| trizinc bis(orthophosphate) | (CAS-No.) 7779-90-0<br>(EC-No.) 231-944-3 | 0.1 - 1 | Aquatic Acute 1, H400,M=10<br>Aquatic Chronic 1, H410,M=10 |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | (CAS-No.) 2897-60-1<br>(EC-No.) 220-780-8 | 0.1 - 0.5 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| zinc oxide | (CAS-No.) 1314-13-2<br>(EC-No.) 215-222-5 | < 0.1 | Aquatic Acute 1, H400,M=1<br>Aquatic Chronic 1, H410,M=1 |

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 GB CLP classification include:
Irritation to the skin (localized redness, swelling, itching, and dryness). 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**
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 | Condition |
|---|---|
| Aldehydes. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | 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. 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. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible.

**6.4. Reference to other sections**
Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
For industrial/occupational use only. Not for consumer sale or use. 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. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. 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 | Identifier(s) | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| Chromium (VI) compounds (as Cr) | 10294-40-3 | UK HSE | 3M™ Scotch-Weld™ Structural Adhesive Primer EW-5000 | Respiratory Sensitizer |
| Dust, inhalable dust | 1314-13-2 | UK HSE | TWA(as respirable dust):4 mg/m3;TWA(as inhalable dust):10 mg/m3 | |
| propan-2-ol | 67-63-0 | UK HSE | TWA:999 mg/m³(400 ppm);STEL:1250 mg/m³(500 ppm) | |
| acetone | 67-64-1 | UK HSE | TWA:1210 mg/m³(500 ppm);STEL:3620 mg/m³(1500 ppm) | |

UK HSE : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**Biological limit values**

| Ingredient | Identifier(s) | Agency | Determinant | Biological Specimen | Sampling Time | Value | Additional comments |
|---|---|---|---|---|---|---|---|
| CHROMIUM VI | 10294-40-3 | UK EH40 BMGVs | Chromium | Creatinine in urine | EOS | 10 umol/mol | |

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)
EOS: End of shift.

**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. Use explosion-proof ventilation 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.

*Applicable Norms/Standards*
Use eye/face 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 | 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.

**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 mask or full facepiece air-purifying respirator with P3 particulate filters.
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates
Half facepiece or full facepiece supplied-air respirator

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

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid. |
| **Colour** | Yellow |
| **Odor** | Slight Solvent |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | 0 ºC |
| **Boiling point/boiling range** | 100 ºC [@ 101,325 Pa ] |
| **Flammability** | Flammable liquid: Category 3. |
| **Flammable Limits(LEL)** | 1.5 % |
| **Flammable Limits(UEL)** | 12.7 % |

| | |
|---|---|
| **Flash point** | 42.5 ºC [*Test Method:*Closed Cup] |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | 6 - 8 |
| **Kinematic Viscosity** | 70 mm²/sec |
| **Water solubility** | Appreciable |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | 1,999.8 Pa [@ 20 ºC ] |
| **Density** | 1.04 - 1.09 g/ml |
| **Relative density** | 1.09 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | 1 [*Ref Std:*AIR=1] |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | 96 - 101 g/l |
| **Evaporation rate** | *No data available.* |
| **Molecular weight** | *No data available.* |
| **Percent volatile** | 69 % weight [*Test Method:*Tested per ASTM protocol] |
| **Sustained Combustibility** | Does not sustain combustion [*Test Method:*ASTM D4206] |

## 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 acids.
Strong bases.
Strong oxidising agents.
Amines.

**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 agree with the 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 3M assessments.**

**11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.**

**Signs and Symptoms of Exposure**

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

**Inhalation**
Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. 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. May cause additional health effects (see below).

**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:**

**Prolonged or repeated exposure may cause target organ effects:**
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.

**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 | Inhalation-Vapour(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Dermal | Rat | LD50 > 1,600 mg/kg |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Phenol-formaldehyde polymer, glycidyl ether | Dermal | Rabbit | LD50 > 6,000 mg/kg |
| Phenol-formaldehyde polymer, glycidyl ether | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | Ingestion | Rat | LD50 > 4,000 mg/kg |
| propan-2-ol | Dermal | Rabbit | LD50 12,870 mg/kg |

| | | | |
|---|---|---|---|
| propan-2-ol | Inhalation-Vapour (4 hours) | Rat | LC50 72.6 mg/l |
| propan-2-ol | Ingestion | Rat | LD50 4,710 mg/kg |
| 2-(propyloxy)ethanol | Dermal | Rabbit | LD50 1,337 mg/kg |
| 2-(propyloxy)ethanol | Inhalation-Vapour (4 hours) | Rat | LC50 > 11.1 mg/l |
| 2-(propyloxy)ethanol | Ingestion | Rat | LD50 3,089 mg/kg |
| Barium Chromate | Dermal | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Barium Chromate | Ingestion | Rat | LD50 3,000 mg/kg |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Ingestion | Rat | LD50 > 2,000 mg/kg |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | Dermal | Rat | LD50 > 2,000 mg/kg |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | Ingestion | Rat | LD50 > 2,000 mg/kg |
| acetone | Dermal | Rabbit | LD50 > 15,688 mg/kg |
| acetone | Inhalation-Vapour (4 hours) | Rat | LC50 76 mg/l |
| acetone | Ingestion | Rat | LD50 5,800 mg/kg |
| trizinc bis(orthophosphate) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| trizinc bis(orthophosphate) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Dermal | Rabbit | LD50 > 4,000 mg/kg |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | Rat | LD50 > 2,000 mg/kg |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | Ingestion | Rat | LD50 > 2,000 mg/kg |
| zinc oxide | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| zinc oxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.7 mg/l |
| zinc oxide | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Rabbit | Mild irritant |
| Phenol-formaldehyde polymer, glycidyl ether | Rabbit | Minimal irritation |
| propan-2-ol | Multiple animal species | No significant irritation |
| 2-(propyloxy)ethanol | Guinea pig | Minimal irritation |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professional judgement | Irritant |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | Rabbit | No significant irritation |
| acetone | Mouse | Minimal irritation |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Rabbit | Mild irritant |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | Rabbit | Minimal irritation |
| zinc oxide | Human and animal | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Rabbit | Moderate irritant |
| Phenol-formaldehyde polymer, glycidyl ether | Rabbit | Mild irritant |
| propan-2-ol | Rabbit | Severe irritant |
| 2-(propyloxy)ethanol | Rabbit | Severe irritant |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professio | Severe irritant |

| | | |
|---|---|---|
| | nal judgemen t | |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | Rabbit | No significant irritation |
| acetone | Rabbit | Severe irritant |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Rabbit | No significant irritation |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | Rabbit | Mild irritant |
| zinc oxide | Rabbit | Mild irritant |

## Skin Sensitisation

| Name | Species | Value |
|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Human and animal | Sensitising |
| Phenol-formaldehyde polymer, glycidyl ether | Human and animal | Sensitising |
| propan-2-ol | Guinea pig | Not classified |
| 2-(propyloxy)ethanol | Guinea pig | Not classified |
| Barium Chromate | similar compoun ds | Not classified |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professio nal judgemen t | Sensitising |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Guinea pig | Sensitising |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | Guinea pig | Sensitising |
| zinc oxide | Guinea pig | Not classified |

## Respiratory Sensitisation

| Name | Species | Value |
|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Human | Not classified |

## Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | In vivo | Not mutagenic |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Phenol-formaldehyde polymer, glycidyl ether | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| propan-2-ol | In Vitro | Not mutagenic |
| propan-2-ol | In vivo | Not mutagenic |
| 2-(propyloxy)ethanol | In Vitro | Not mutagenic |
| acetone | In vivo | Not mutagenic |
| acetone | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | In vivo | Not mutagenic |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | In vivo | Not mutagenic |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| zinc oxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| zinc oxide | In vivo | Some positive data exist, but the data are not |

| | | |
|---|---|---|
| | | sufficient for classification |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| propan-2-ol | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Barium Chromate | Not specified. | similar compounds | Carcinogenic. |
| acetone | Not specified. | Multiple animal species | Not carcinogenic |

## Reproductive Toxicity

## Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| propan-2-ol | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 2 generation |
| propan-2-ol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| propan-2-ol | Ingestion | Not classified for development | Rat | NOAEL 400 mg/kg/day | during organogenesis |
| propan-2-ol | Inhalation | Not classified for development | Rat | LOAEL 9 mg/l | during gestation |
| 2-(propyloxy)ethanol | Inhalation | Not classified for development | Rat | NOAEL 1.7 mg/l | during organogenesis |
| Barium Chromate | Not specified. | Not classified for reproduction and/or development | similar compounds | NOAEL Not available | premating & during gestation |
| acetone | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,700 mg/kg/day | 13 weeks |
| acetone | Inhalation | Not classified for development | Rat | NOAEL 5.2 mg/l | during organogenesis |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | Not classified for male reproduction | Rat | NOAEL 150 mg/kg/day | 2 generation |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Dermal | Not classified for development | Rat | NOAEL 200 mg/kg/day | during organogenesis |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | Not classified for development | Rabbit | NOAEL 375 mg/kg/day | during gestation |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | Toxic to female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| zinc oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | premating & during gestation |

## Target Organ(s)

## Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| propan-2-ol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| propan-2-ol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| propan-2-ol | Inhalation | auditory system | Not classified | Guinea pig | NOAEL 13.4 mg/l | 24 hours |
| propan-2-ol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| 2-(propyloxy)ethanol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL not available | |
| acetone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| acetone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 hours |
| acetone | Inhalation | liver | Not classified | Guinea pig | NOAEL Not available | |
| acetone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

## Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | Ingestion | auditory system \| heart \| endocrine system \| hematopoietic system \| liver \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| propan-2-ol | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 12.3 mg/l | 24 months |
| propan-2-ol | Inhalation | nervous system | Not classified | Rat | NOAEL 12 mg/l | 13 weeks |
| propan-2-ol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 400 mg/kg/day | 12 weeks |
| 2-(propyloxy)ethanol | Inhalation | heart \| kidney and/or bladder | Not classified | Rat | NOAEL 1.7 mg/l | 14 weeks |
| 2-(propyloxy)ethanol | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.4 mg/l | 14 weeks |
| 2-(propyloxy)ethanol | Inhalation | endocrine system \| liver \| immune system \| nervous system \| eyes | Not classified | Rat | NOAEL 1.7 mg/l | 14 weeks |
| 2-(propyloxy)ethanol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 780 mg/kg/day | 6 weeks |
| 2-(propyloxy)ethanol | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 390 | 6 weeks |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | mg/kg/day | |
| 2-(propyloxy)ethanol | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 195 mg/kg/day | 6 weeks |
| 2-(propyloxy)ethanol | Ingestion | heart \| liver \| endocrine system \| immune system \| nervous system \| eyes \| respiratory system | Not classified | Rat | NOAEL 1,560 mg/kg/day | 6 weeks |
| Barium Chromate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | similar compoun ds | NOAEL Not available | occupational exposure |
| acetone | Dermal | eyes | Not classified | Guinea pig | NOAEL Not available | 3 weeks |
| acetone | Inhalation | hematopoietic system | Not classified | Human | NOAEL 3 mg/l | 6 weeks |
| acetone | Inhalation | immune system | Not classified | Human | NOAEL 1.19 mg/l | 6 days |
| acetone | Inhalation | kidney and/or bladder | Not classified | Guinea pig | NOAEL 119 mg/l | not available |
| acetone | Inhalation | heart \| liver | Not classified | Rat | NOAEL 45 mg/l | 8 weeks |
| acetone | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 900 mg/kg/day | 13 weeks |
| acetone | Ingestion | heart | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| acetone | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |
| acetone | Ingestion | liver | Not classified | Mouse | NOAEL 3,896 mg/kg/day | 14 days |
| acetone | Ingestion | eyes | Not classified | Rat | NOAEL 3,400 mg/kg/day | 13 weeks |
| acetone | Ingestion | respiratory system | Not classified | Rat | NOAEL 2,500 mg/kg/day | 13 weeks |
| acetone | Ingestion | muscles | Not classified | Rat | NOAEL 2,500 mg/kg | 13 weeks |
| acetone | Ingestion | skin \| bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 11,298 mg/kg/day | 13 weeks |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Dermal | nervous system \| respiratory system | Not classified | Rat | NOAEL 100 mg/kg/day | 14 weeks |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Dermal | blood \| liver \| eyes \| kidney and/or bladder | Not classified | Rat | NOAEL 100 mg/kg/day | 13 weeks |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | immune system | Not classified | Rat | NOAEL 750 mg/kg/day | 13 weeks |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 100 mg/kg/day | 13 weeks |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | Ingestion | hematopoietic system \| nervous system \| eyes | Not classified | Rat | NOAEL 750 mg/kg/day | 13 weeks |
| zinc oxide | Ingestion | nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 10 days |
| zinc oxide | Ingestion | endocrine system \| hematopoietic system \| kidney and/or bladder | Not classified | Other | NOAEL 500 mg/kg/day | 6 months |

**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 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 | Identifier(s) | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Green algae | Estimated | 72 hours | EC50 | >11 mg/l |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Rainbow trout | Estimated | 96 hours | LC50 | 2 mg/l |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Water flea | Estimated | 48 hours | EC50 | 1.8 mg/l |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Green algae | Estimated | 72 hours | NOEC | 4.2 mg/l |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Water flea | Estimated | 21 days | NOEC | 0.3 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Green algae | Analogous Compound | 72 hours | EbC50 | 1.8 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Rainbow trout | Analogous Compound | 96 hours | LC50 | 2 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Water flea | Analogous Compound | 48 hours | EC50 | 1.6 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Water flea | Analogous Compound | 21 days | NOEC | 0.3 mg/l |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Activated sludge | Analogous Compound | 3 hours | IC50 | >100 mg/l |
| Barium Chromate | 10294-40-3 | Fish | Estimated | 96 hours | LC50 | 101 mg/l |
| Barium Chromate | 10294-40-3 | Green algae | Estimated | 72 hours | ErC50 | 1.13 mg/l |
| Barium Chromate | 10294-40-3 | Water flea | Estimated | 48 hours | EC50 | 0.14 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Barium Chromate | 10294-40-3 | Brook trout | Estimated | 8 months | NOEC | 0.05 mg/l |
| Barium Chromate | 10294-40-3 | Duckweed | Estimated | 7 days | NOEC | 0.53 mg/l |
| Barium Chromate | 10294-40-3 | Green algae | Estimated | 72 hours | ErC10 | 0.05 mg/l |
| Barium Chromate | 10294-40-3 | Water flea | Estimated | 7 days | NOEC | 0.02 mg/l |
| Barium Chromate | 10294-40-3 | Activated sludge | Estimated | 3 hours | IC50 | 150 mg/l |
| Barium Chromate | 10294-40-3 | Arthropod | Estimated | 28 days | NOEC | 240 ppm diet |
| Barium Chromate | 10294-40-3 | Lettuce | Estimated | 14 days | EC50 | 8.8 mg/kg (Dry Weight) |
| Barium Chromate | 10294-40-3 | Redworm | Estimated | 14 days | EC50 | 3,860 mg/kg (Dry Weight) |
| Barium Chromate | 10294-40-3 | Soil microbes | Estimated | 4 days | NOEC | <1.3 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Eastern oyster | Estimated | 96 hours | LC50 | 89.4 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Activated sludge | Experimental | 16 hours | IC50 | >1,000 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Fathead minnow | Experimental | 96 hours | LC50 | >5,000 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Water flea | Experimental | 48 hours | EC50 | >5,000 mg/l |
| 2-(propyloxy)ethanol | 2807-30-9 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| propan-2-ol | 67-63-0 | Green algae | Experimental | 72 hours | ErC50 | >1,000 mg/l |
| propan-2-ol | 67-63-0 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| propan-2-ol | 67-63-0 | Water flea | Experimental | 48 hours | EC50 | >1,000 mg/l |
| propan-2-ol | 67-63-0 | Green algae | Experimental | 72 hours | NOEC | 1,000 mg/l |
| propan-2-ol | 67-63-0 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| propan-2-ol | 67-63-0 | Bacteria | Experimental | 16 hours | LOEC | 1,050 mg/l |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Common Carp | Experimental | 96 hours | LC50 | >100 mg/l |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Green algae | Experimental | 72 hours | ErC50 | >100 mg/l |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Green algae | Experimental | 72 hours | NOEC | 100 mg/l |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| acetone | 67-64-1 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 11,493 mg/l |
| acetone | 67-64-1 | Invertebrate | Experimental | 24 hours | LC50 | 2,100 mg/l |
| acetone | 67-64-1 | Rainbow trout | Experimental | 96 hours | LC50 | 5,540 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| acetone | 67-64-1 | Water flea | Experimental | 21 days | NOEC | 1,000 mg/l |
| acetone | 67-64-1 | Bacteria | Experimental | 16 hours | NOEC | 1,700 mg/l |
| acetone | 67-64-1 | Redworm | Experimental | 48 hours | LC50 | >100 |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Green algae | Experimental | 72 hours | IC50 | 843.75 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Rainbow trout | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Water flea | Experimental | 48 hours | EL50 | 7.2 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Green algae | Experimental | 72 hours | NOEC | 500 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Midge | Experimental | 28 days | NOEC | 100 mg/kg (Dry Weight) |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Water flea | Experimental | 21 days | NOEL | 56 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Activated sludge | Analogous Compound | 180 minutes | EC50 | >100 mg/l |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Cabbage | Experimental | 21 days | EC50 | 847.92 mg/kg (Dry Weight) |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Redworm | Experimental | 28 days | NOEC | 1,000 mg/kg (Dry Weight) |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Soil microbes | Experimental | 28 days | EC50 | >1,000 mg/kg (Dry Weight) |
| trizinc bis(orthophosphate) | 7779-90-0 | Activated sludge | Estimated | 3 hours | EC50 | 10 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Green algae | Estimated | 72 hours | EC50 | 0.083 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Invertebrate | Estimated | 48 hours | EC50 | 0.08 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Rainbow trout | Estimated | 96 hours | LC50 | 0.33 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Water flea | Estimated | 48 hours | EC50 | 0.12 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Diatom | Estimated | 72 hours | EC50 | 0.04 mg/l |
| trizinc bis(orthophosphate) | 7779-90-0 | Green algae | Estimated | 72 hours | NOEC | 0.01 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| trizinc bis(orthophosphate) | 7779-90-0 | Water flea | Estimated | 7 days | NOEC | 0.026 mg/l |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Activated sludge | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Green algae | Experimental | 72 hours | EC50 | 17 mg/l |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Rainbow trout | Experimental | 96 hours | LC50 | 37.4 mg/l |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Water flea | Experimental | 48 hours | EC50 | 3.1 mg/l |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Green algae | Experimental | 72 hours | NOEC | 1.8 mg/l |
| zinc oxide | 1314-13-2 | Activated sludge | Estimated | 3 hours | EC50 | 6.5 mg/l |
| zinc oxide | 1314-13-2 | Green algae | Estimated | 72 hours | EC50 | 0.052 mg/l |
| zinc oxide | 1314-13-2 | Rainbow trout | Estimated | 96 hours | LC50 | 0.21 mg/l |
| zinc oxide | 1314-13-2 | Water flea | Estimated | 48 hours | EC50 | 0.07 mg/l |
| zinc oxide | 1314-13-2 | Green algae | Estimated | 72 hours | NOEC | 0.006 mg/l |
| zinc oxide | 1314-13-2 | Water flea | Estimated | 7 days | NOEC | 0.02 mg/l |

### 12.2. Persistence and degradability

| Material | Identifier(s) | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Estimated Biodegradation | 28 days | BOD | 5 %BOD/ThOD | OECD 301F - Manometric respirometry |
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Estimated Hydrolysis | | Hydrolytic half-life | 117 hours (t 1/2) | |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Analogous Compound Biodegradation | 28 days | CO2 evolution | 16 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Analogous Compound Hydrolysis | | Hydrolytic half-life (pH 7) | 117 hours (t 1/2) | OECD 111 Hydrolysis func of pH |
| Barium Chromate | 10294-40-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2-(propyloxy)ethanol | 2807-30-9 | Experimental Biodegradation | 20 days | BOD | 100 %BOD/ThOD | |
| propan-2-ol | 67-63-0 | Experimental Biodegradation | 14 days | BOD | 86 %BOD/ThOD | OECD 301C - MITI test (I) |
| propan-2-ol | 67-63-0 | Experimental Photolysis | | Photolytic half-life (in air) | 6.2 days (t 1/2) | |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Experimental Aquatic Inherent Biodegrad. | 28 days | Dissolv. Organic Carbon Deplet | 10 %removal of DOC (does not pass 10-day window) | similar to OECD 302B |

| | | | | | | |
|---|---|---|---|---|---|---|
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 33 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| acetone | 67-64-1 | Experimental Biodegradation | 28 days | BOD | 78 %BOD/ThOD | OECD 301D - Closed bottle test |
| acetone | 67-64-1 | Experimental Photolysis | | Photolytic half-life (in air) | 147 days (t 1/2) | |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Experimental Biodegradation | 28 days | BOD | 87 %BOD/ThOD | OECD 301F - Manometric respirometry |
| trizinc bis(orthophosphate) | 7779-90-0 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Experimental Biodegradation | 28 days | BOD | 53 %BOD/ThOD | OECD 301F - Manometric respirometry |
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Estimated Hydrolysis | | Hydrolytic half-life | 11.7 hours (t 1/2) | |
| zinc oxide | 1314-13-2 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |

### 12.3 : Bioaccumulative potential

| Material | Identifier(s) | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Bisphenol A diglycidyl ether - bisphenol A copolymer | 25036-25-3 | Estimated Bioconcentration | | Log Kow | 3.242 | |
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Analogous Compound Bioconcentration | | Log Kow | 3.6 | OECD 117 log Kow HPLC method |
| Barium Chromate | 10294-40-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-(propyloxy)ethanol | 2807-30-9 | Experimental Bioconcentration | | Log Kow | 0.673 | |
| propan-2-ol | 67-63-0 | Experimental Bioconcentration | | Log Kow | 0.05 | OECD 107 log Kow shke flsk mtd |
| N,N''-(4-Methyl-m-phenylene)bis[N',N'-dimethylurea] | 17526-94-2 | Experimental Bioconcentration | | Log Kow | <0.23 | OECD 117 log Kow HPLC method |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Bioconcentration | | Bioaccumulation factor | 5.7 | Catalogic™ |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Bioconcentration | | Log Kow | ≥5.7 | Episuite™ |
| acetone | 67-64-1 | Experimental BCF - Other | | Bioaccumulation factor | 0.65 | |
| acetone | 67-64-1 | Experimental Bioconcentration | | Log Kow | -0.24 | |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Experimental Bioconcentration | | Log Kow | >6 | OECD 117 log Kow HPLC method |

| | | | | | | |
|---|---|---|---|---|---|---|
| [3-(2,3-epoxypropoxy)propyl]diethoxymethylsilane | 2897-60-1 | Estimated Bioconcentration | | Log Kow | 1.3 | |
| zinc oxide | 1314-13-2 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | ≤217 | OECD305-Bioconcentration |

### 12.4. Mobility in soil

| Material | Identifier(s) | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| Phenol-formaldehyde polymer, glycidyl ether | 28064-14-4 | Analogous Compound Mobility in Soil | Koc | 4,460 l/kg | OECD 121 Estim. of Koc by HPLC |
| propan-2-ol | 67-63-0 | Modeled Mobility in Soil | Koc | 4 l/kg | Episuite™ |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Mobility in Soil | Koc | ≥3.5E+07 l/kg | Episuite™ |
| acetone | 67-64-1 | Modeled Mobility in Soil | Koc | 9.7 l/kg | Episuite™ |
| oxirane, mono[(C12-14-alkyloxy)methyl] derivs. | 68609-97-2 | Experimental Mobility in Soil | Koc | >426580 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. Other adverse effects

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

## 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** | UN3082 | UN3082 | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) |
| **14.3 Transport hazard class(es)** | 9 | 9 | 9 |
| **14.4 Packing group** | III | III | III |
| **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** | M6 | 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**

**Regulation UK regulation 2023/63 (marketing and use of explosive precursors and poisons)**

This product contains a reportable substance according to UK legislation 1972/66: all suspicious transactions, and significant

disappearances and thefts should be reported to the relevant national contact point. Please see UK Regulation 2023/63 for further details.

**Global inventory status**
Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). 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.

**COMAH Regulation, SI 2015/483**
Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | |
|---|---|---|
| | Lower-tier requirements | Upper-tier requirements |
| E1 Hazardous to the Aquatic environment | 100 | 200 |

Seveso named dangerous substances, Annex 1, Part 2
None

**Regulation (EU) No 649/2012, as amended for GB**
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 for GB.

## SECTION 16: Other information

**List of relevant H statements**

| | |
|---|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350i | May cause cancer by inhalation. |
| H360F | May damage fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure: respiratory system. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Revision information:**
EU Section 14 - Table Data information was modified.
Section 12: Component ecotoxicity information information was modified.

Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.

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 SDSs for Great Britain are available at www.3M.com/uk**
For Northern Ireland documents, please contact your 3M representative to obtain a copy.