



Safety Data Sheet

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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-Seal™ Industrial Sealant 800 Reddish Brown

Product Identification Numbers

62-0800-2631-3

7000000792

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

Identified uses

Industrial use.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
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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:

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
 Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
 Skin Sensitization, Category 1 - Skin Sens. 1; H317
 Carcinogenicity, Category 2 - Carc. 2; H351
 Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
 Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

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

GHS02 (Flame) |GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

Pictograms



| Ingredient | Identifier(s) | EC No. | % by Wt |
|----------------------|---------------|-----------|---------|
| butanone | 78-93-3 | 201-159-0 | 35 - 50 |
| FUMARATED ROSIN | 65997-04-8 | 266-040-8 | 5 - 15 |
| 4-methylpentan-2-one | 108-10-1 | 203-550-1 | 3 - 8 |

HAZARD STATEMENTS:

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful 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. |
| P261A | Avoid breathing vapours. |
| P280I | Wear protective gloves, eye protection, face protection, and respiratory protection. |

Response:

| | |
|--------------------|--|
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTRE or doctor/physician. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH066

Repeated exposure may cause skin dryness or cracking.

11% of the mixture consists of components of unknown acute inhalation toxicity.

Contains 4% of components with unknown hazards to the aquatic environment.

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 |
|-----------------------------------|--|----------|---|
| butanone | (CAS-No.) 78-93-3 (EC-No.) 201-159-0 | 35 - 50 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| Acrylonitrile - butadiene polymer | (CAS-No.) 9003-18-3 | 10 - 20 | Substance not classified as hazardous |
| FUMARATED ROSIN | (CAS-No.) 65997-04-8 (EC-No.) 266-040-8 | 5 - 15 | Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 4, H413 |
| Limestone | (CAS-No.) 1317-65-3 (EC-No.) 215-279-6 | 5 - 10 | Substance with a national occupational exposure limit |
| 4-methylpentan-2-one | (CAS-No.) 108-10-1 (EC-No.) 203-550-1 | 3 - 8 | Flam. Liq. 2, H225 Acute Tox. 4, H332(LC50 = 11 mg/l **ATE values per GB MCL**) Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066 |
| Oxide glass chemicals | (CAS-No.) 65997-17-3 (EC-No.) 266-046-0 | 1 - 5 | Substance with a national occupational exposure limit |
| Iron(III) oxide | (CAS-No.) 1309-37-1 (EC-No.) 215-168-2 | 1 - 5 | Substance with a national occupational exposure limit |
| Tris(2-butoxyethyl) phosphate | (CAS-No.) 78-51-3 (EC-No.) 201-122-9 | 1 - 5 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H336 Aquatic Chronic 3, H412 |
| Titanium dioxide | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 | < 5 | Substance with a national occupational exposure limit |

| | | | |
|----------------|---|-----|---|
| salicylic acid | (CAS-No.) 69-72-7 (EC-No.) 200-712-3 | < 3 | Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d |
| zinc oxide | (CAS-No.) 1314-13-2 (EC-No.) 215-222-5 | < 2 | Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |
| toluene | (CAS-No.) 108-88-3 (EC-No.) 203-625-9 | < 1 | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 3, H412 |

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

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:

Allergic skin reaction (redness, swelling, blistering, and itching). Dermal defatting (localized redness, itching, drying and cracking of skin). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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

| <u>Substance</u> | <u>Condition</u> |
|---------------------|--------------------|
| Aldehydes. | During combustion. |
| Hydrocarbons. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Hydrogen cyanide. | During combustion. |
| Ketones. | During combustion. |
| Oxides of nitrogen. | During combustion. |
| Oxides of zinc. | 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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. 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

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 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 | Identifier(s) | Agency | Limit type | Additional comments |
|-----------------------|----------------------|-------------------------|--|----------------------------|
| 4-methylpentan-2-one | 108-10-1 | UK HSE | TWA:208 mg/m ³ (50 ppm);STEL:416 mg/m ³ (100 ppm) | SKIN |
| toluene | 108-88-3 | UK HSE | TWA: 191 mg/m ³ (50 ppm); STEL: 384 mg/m ³ (100 ppm) | SKIN |
| Iron(III) oxide | 1309-37-1 | UK HSE | TWA(respirable):4 mg/m ³ ;TWA(Inhalable):10 mg/m ³ ;TWA(as Fe, fume):5 mg/m ³ ;STEL(as Fe, fume):10 mg/m ³ | |
| Dust, inhalable dust | 1314-13-2 | UK HSE | TWA(as respirable dust):4 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³ | |
| Limestone | 1317-65-3 | UK HSE | TWA(respirable):4 mg/m ³ ;TWA(as respirable dust):4 mg/m ³ ;TWA(Inhalable):10 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³ | |
| Titanium dioxide | 13463-67-7 | UK HSE | TWA(respirable):4 mg/m ³ ;TWA(Inhalable):10 mg/m ³ | |
| Dust, inhalable dust | 65997-17-3 | UK HSE | TWA(as respirable dust):4 mg/m ³ ;TWA(as inhalable dust):10 mg/m ³ | |
| 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 | |
| butanone | 78-93-3 | UK HSE | TWA: 600 mg/m ³ (200 ppm); | SKIN |

STEL: 899 mg/m³ (300 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 |
|----------------------|---------------|---------------|-----------------------|---------------------|---------------|-----------|---------------------|
| 4-methylpentan-2-one | 108-10-1 | UK EH40 BMGVs | 4-Methyl pentan-2-one | Urine | EOS | 20 umol/L | |
| butanone | 78-93-3 | UK EH40 BMGVs | Butan-2-one | Urine | EOS | 70 umol/L | |

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 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. |
| Colour | Red-Brown |
| Odor | Strong Ketones |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>Not applicable.</i> |
| Boiling point/boiling range | 80 °C [<i>Details:MEK</i>] |
| Flammability | Flammable Liquid: Category 2. |
| Flammable Limits(LEL) | 1.2 % volume |
| Flammable Limits(UEL) | 10 % volume |
| Flash point | -8.9 °C [<i>Test Method:Closed Cup</i>] [<i>Details:MEK</i>] |
| Autoignition temperature | 404 °C [<i>Details:MEK</i>] |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-polar/aprotic</i> |
| Kinematic Viscosity | 27,590 mm ² /sec |
| Water solubility | Slight (less than 10%) |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <=12,132.3 Pa [<i>@ 25 °C</i>] |
| Density | 1.04 g/ml |
| Relative density | 1.04 [<i>Ref Std:WATER=1</i>] |
| Relative Vapour Density | 2.41 [<i>Ref Std:AIR=1</i>] |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|--------------------------------------|--------------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate | 2.7 [<i>Ref Std:WATER=1</i>] |
| Molecular weight | <i>No data available.</i> |
| Percent volatile | 40 - 50 % 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

Strong oxidising agents.

Strong acids.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| 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

May be harmful if inhaled. 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.

Eye contact

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

Ingestion

May be harmful if swallowed.

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:

Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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 >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| butanone | Dermal | Rabbit | LD50 > 8,050 mg/kg |
| butanone | Inhalation-Vapour (4 hours) | Rat | LC50 34.5 mg/l |
| butanone | Ingestion | Rat | LD50 2,737 mg/kg |
| Acrylonitrile - butadiene polymer | Dermal | Rabbit | LD50 > 15,000 mg/kg |
| Acrylonitrile - butadiene polymer | Ingestion | Rat | LD50 > 30,000 mg/kg |
| FUMARATED ROSIN | Dermal | Rat | LD50 > 2,000 mg/kg |
| FUMARATED ROSIN | Ingestion | Rat | LD50 > 2,000 mg/kg |
| 4-methylpentan-2-one | Dermal | Rabbit | LD50 > 16,000 mg/kg |
| 4-methylpentan-2-one | Inhalation-Vapour (4 hours) | Rat | LC50 11 mg/l |
| 4-methylpentan-2-one | Ingestion | Rat | LD50 3,038 mg/kg |
| Limestone | Dermal | Rat | LD50 > 2,000 mg/kg |
| Limestone | Inhalation-Dust/Mist (4 hours) | Rat | LC50 3 mg/l |
| Limestone | Ingestion | Rat | LD50 6,450 mg/kg |
| Tris(2-butoxyethyl) phosphate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Tris(2-butoxyethyl) phosphate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.4 mg/l |
| Tris(2-butoxyethyl) phosphate | Ingestion | Rat | LD50 4,700 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 |
| Iron(III) oxide | Dermal | Not available | LD50 3,100 mg/kg |
| Iron(III) oxide | Ingestion | Not available | LD50 3,700 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 |
| 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 |
| salicylic acid | Dermal | Rat | LD50 > 2,000 mg/kg |
| salicylic acid | Ingestion | Rat | LD50 891 mg/kg |
| toluene | Dermal | Rat | LD50 12,000 mg/kg |
| toluene | Inhalation-Vapour (4 hours) | Rat | LC50 30 mg/l |
| toluene | Ingestion | Rat | LD50 5,550 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|-----------------------------------|------------------------|---------------------------|
| butanone | Rabbit | Minimal irritation |
| Acrylonitrile - butadiene polymer | Professional judgement | No significant irritation |
| FUMARATED ROSIN | Rabbit | No significant irritation |
| 4-methylpentan-2-one | Rabbit | Mild irritant |
| Limestone | Rabbit | No significant irritation |
| Tris(2-butoxyethyl) phosphate | Rabbit | Irritant |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Iron(III) oxide | Rabbit | No significant irritation |
| zinc oxide | Human and animal | No significant irritation |
| Titanium dioxide | Rabbit | No significant irritation |
| salicylic acid | Rabbit | No significant irritation |
| toluene | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|-----------------------------------|------------------------|---------------------------|
| butanone | Rabbit | Severe irritant |
| Acrylonitrile - butadiene polymer | Professional judgement | No significant irritation |
| FUMARATED ROSIN | Rabbit | Corrosive |
| 4-methylpentan-2-one | Rabbit | Mild irritant |
| Limestone | Rabbit | No significant irritation |
| Tris(2-butoxyethyl) phosphate | Rabbit | Mild irritant |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Iron(III) oxide | Rabbit | No significant irritation |
| zinc oxide | Rabbit | Mild irritant |
| Titanium dioxide | Rabbit | No significant irritation |
| salicylic acid | Rabbit | Corrosive |
| toluene | Rabbit | Moderate irritant |

Skin Sensitisation

| Name | Species | Value |
|-------------------------------|------------------|----------------|
| FUMARATED ROSIN | Mouse | Sensitising |
| 4-methylpentan-2-one | Guinea pig | Not classified |
| Tris(2-butoxyethyl) phosphate | Mouse | Sensitising |
| Iron(III) oxide | Human | Not classified |
| zinc oxide | Guinea pig | Not classified |
| Titanium dioxide | Human and animal | Not classified |
| salicylic acid | Mouse | Not classified |
| toluene | Guinea pig | Not classified |

Photosensitisation

| Name | Species | Value |
|----------------|---------|-----------------|
| salicylic acid | Mouse | Not sensitising |

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 |
|-------------------------------|----------|--|
| butanone | In Vitro | Not mutagenic |
| FUMARATED ROSIN | In Vitro | Not mutagenic |
| 4-methylpentan-2-one | In Vitro | Not mutagenic |
| Tris(2-butoxyethyl) phosphate | In Vitro | Not mutagenic |
| Tris(2-butoxyethyl) phosphate | In vivo | Not mutagenic |
| Oxide glass chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Iron(III) oxide | In Vitro | Not mutagenic |
| 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 |
| Titanium dioxide | In Vitro | Not mutagenic |
| Titanium dioxide | In vivo | Not mutagenic |
| salicylic acid | In Vitro | Not mutagenic |
| salicylic acid | In vivo | Not mutagenic |
| toluene | In Vitro | Not mutagenic |
| toluene | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|------------|-------------------------|--|
| butanone | Inhalation | Human | Not carcinogenic |
| 4-methylpentan-2-one | Inhalation | Multiple animal species | Carcinogenic. |
| Oxide glass chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Iron(III) oxide | Inhalation | Human | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium dioxide | Inhalation | Rat | Carcinogenic. |
| toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| toluene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| toluene | Inhalation | Mouse | 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 |
|-----------------|------------|--|---------|---------------------|--------------------------|
| butanone | Inhalation | Not classified for development | Rat | LOAEL 8.8 mg/l | during gestation |
| FUMARATED ROSIN | Ingestion | Not classified for female reproduction | Rat | NOAEL 450 mg/kg/day | premating into lactation |
| FUMARATED ROSIN | Ingestion | Not classified for male reproduction | Rat | NOAEL 650 | 28 days |

| | | | | mg/kg/day | |
|-------------------------------|------------|--|-------------------------|-----------------------|--------------------------------|
| FUMARATED ROSIN | Ingestion | Not classified for development | Rat | NOAEL 370 mg/kg/day | during gestation |
| 4-methylpentan-2-one | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| 4-methylpentan-2-one | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4-methylpentan-2-one | Inhalation | Not classified for male reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation |
| 4-methylpentan-2-one | Inhalation | Not classified for development | Mouse | NOAEL 12.3 mg/l | during organogenesis |
| Limestone | Ingestion | Not classified for development | Rat | NOAEL 625 mg/kg/day | prematuring & during gestation |
| Tris(2-butoxyethyl) phosphate | Ingestion | Not classified for development | Rat | NOAEL 1,500 mg/kg/day | during organogenesis |
| zinc oxide | Ingestion | Not classified for reproduction and/or development | Multiple animal species | NOAEL 125 mg/kg/day | prematuring & during gestation |
| salicylic acid | Ingestion | Toxic to development | Rat | NOAEL 75 mg/kg/day | during organogenesis |
| toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|----------------------|------------|-----------------------------------|--|-------------------------|----------------------|-------------------|
| butanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | official classification | NOAEL Not available | |
| butanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| butanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | not applicable |
| butanone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 1,080 mg/kg | not applicable |
| FUMARATED ROSIN | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available. | |
| 4-methylpentan-2-one | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | LOAEL 0.1 mg/l | 2 hours |
| 4-methylpentan-2-one | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| 4-methylpentan-2-one | Inhalation | vascular system | Not classified | Dog | NOAEL Not available | not available |
| 4-methylpentan-2-one | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 900 mg/kg | not applicable |
| Limestone | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |

| | | | | | | |
|-------------------------------|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Tris(2-butoxyethyl) phosphate | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| Tris(2-butoxyethyl) phosphate | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | NOAEL Not available | |
| Tris(2-butoxyethyl) phosphate | Ingestion | peripheral nervous system | Not classified | Chicken | NOAEL 5,000 mg/kg | |
| toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | 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 |
|----------------------|------------|--|----------------|-------------------------|-----------------------|-------------------|
| butanone | Dermal | nervous system | Not classified | Guinea pig | NOAEL Not available | 31 weeks |
| butanone | Inhalation | liver kidney and/or bladder heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | 7 days |
| butanone | Ingestion | nervous system | Not classified | Rat | NOAEL 173 mg/kg/day | 90 days |
| FUMARATED ROSIN | Ingestion | endocrine system immune system | Not classified | Rat | NOAEL 450 mg/kg/day | 53 days |
| FUMARATED ROSIN | Ingestion | nervous system eyes | Not classified | Rat | NOAEL 705 mg/kg/day | 90 days |
| FUMARATED ROSIN | Ingestion | gastrointestinal tract hematopoietic system kidney and/or bladder respiratory system | Not classified | Rat | NOAEL 450 mg/kg/day | 53 days |
| 4-methylpentan-2-one | Inhalation | liver | Not classified | Rat | NOAEL 0.41 mg/l | 13 weeks |
| 4-methylpentan-2-one | Inhalation | heart | Not classified | Multiple animal species | NOAEL 0.8 mg/l | 2 weeks |
| 4-methylpentan-2-one | Inhalation | kidney and/or bladder | Not classified | Multiple animal species | NOAEL 0.4 mg/l | 90 days |
| 4-methylpentan-2-one | Inhalation | respiratory system | Not classified | Multiple animal species | NOAEL 4.1 mg/l | 14 weeks |
| 4-methylpentan-2-one | Inhalation | endocrine system hematopoietic system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 90 days |
| 4-methylpentan-2-one | Inhalation | nervous system | Not classified | Multiple animal species | NOAEL 0.41 mg/l | 13 weeks |
| 4-methylpentan-2-one | Ingestion | endocrine system hematopoietic system liver kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4-methylpentan-2-one | Ingestion | heart immune | Not classified | Rat | NOAEL | 120 days |

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|-------------------------------|------------|---|--|-------------------------|----------------------------|------------------------|
| | | system muscles nervous system respiratory system | | | 1,040 mg/kg/day | |
| Limestone | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Tris(2-butoxyethyl) phosphate | Dermal | skin | Not classified | Rabbit | NOAEL 10 mg/kg/day | 21 days |
| Tris(2-butoxyethyl) phosphate | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 1,000 mg/kg/day | 21 days |
| Tris(2-butoxyethyl) phosphate | Ingestion | heart peripheral nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 255 mg/kg/day | 18 weeks |
| Tris(2-butoxyethyl) phosphate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 9900 ppm in the diet | 18 weeks |
| Tris(2-butoxyethyl) phosphate | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 509 mg/kg/day | 18 weeks |
| Tris(2-butoxyethyl) phosphate | Ingestion | eyes | Not classified | Rat | NOAEL 9900 ppm in the diet | 18 weeks |
| Tris(2-butoxyethyl) phosphate | Ingestion | endocrine system gastrointestinal tract respiratory system | Not classified | Rat | NOAEL 509 mg/kg/day | 18 weeks |
| Tris(2-butoxyethyl) phosphate | Ingestion | skin immune system muscles | Not classified | Rat | NOAEL 100 mg/kg/day | 14 days |
| Oxide glass chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| Iron(III) oxide | Inhalation | pulmonary fibrosis pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| 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 |
| salicylic acid | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 3 days |
| toluene | Inhalation | auditory system nervous system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse |
| toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months |
| toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks |
| toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks |
| toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days |
| toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks |
| toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure |
| toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks |
| toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks |
| toluene | Ingestion | heart | Not classified | Rat | NOAEL | 13 weeks |

| | | | | | | |
|---------|-----------|-------------------------------|----------------|-------------------------|-----------------------|----------|
| | | | | | 2,500 mg/kg/day | |
| toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |

Aspiration Hazard

| Name | Value |
|----------------------|--|
| 4-methylpentan-2-one | Some positive data exist, but the data are not sufficient for classification |
| toluene | 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 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 |
|-----------------------------------|---------------|------------------|---|----------|--------------------------------|-------------|
| butanone | 78-93-3 | Fathead minnow | Experimental | 96 hours | LC50 | 2,993 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC50 | 2,029 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 48 hours | EC50 | 308 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC10 | 1,289 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| butanone | 78-93-3 | Bacteria | Experimental | 16 hours | LOEC | 1,150 mg/l |
| Acrylonitrile - butadiene polymer | 9003-18-3 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| FUMARATED ROSIN | 65997-04-8 | Fathead minnow | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| FUMARATED ROSIN | 65997-04-8 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| FUMARATED ROSIN | 65997-04-8 | Water flea | Experimental | 48 hours | EL50 | >100 mg/l |
| FUMARATED ROSIN | 65997-04-8 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | 100 mg/l |
| FUMARATED ROSIN | 65997-04-8 | Activated sludge | Analogous Compound | 3 hours | EC50 | >1,000 mg/l |

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|-------------------------------|------------|------------------|--------------|------------|--------------------------------|-------------------------|
| Limestone | 1317-65-3 | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| Limestone | 1317-65-3 | Rainbow trout | Estimated | 96 hours | LC50 | >100 mg/l |
| Limestone | 1317-65-3 | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| Limestone | 1317-65-3 | Green algae | Estimated | 72 hours | EC10 | >100 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Green algae | Experimental | 96 hours | EC50 | 400 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Water flea | Experimental | 48 hours | EC50 | >200 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Zebra Fish | Experimental | 96 hours | LC50 | >179 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Fathead minnow | Experimental | 32 days | NOEC | 56.2 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Water flea | Experimental | 21 days | NOEC | 78 mg/l |
| 4-methylpentan-2-one | 108-10-1 | Activated sludge | Experimental | 30 minutes | EC50 | >1,000 |
| Iron(III) oxide | 1309-37-1 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Iron(III) oxide | 1309-37-1 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |
| Iron(III) oxide | 1309-37-1 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| Iron(III) oxide | 1309-37-1 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Iron(III) oxide | 1309-37-1 | Water flea | Experimental | 21 days | No tox obs at lmt of water sol | >100 mg/l |
| Iron(III) oxide | 1309-37-1 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 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 |
| 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 |
| 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 |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Green algae | Experimental | 72 hours | EC50 | 61 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Medaka | Experimental | 96 hours | LC50 | 3.34 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Water flea | Experimental | 48 hours | EC50 | 33 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Green algae | Experimental | 72 hours | ErC10 | 28 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Medaka | Experimental | 14 days | NOEC | 0.25 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Redworm | Experimental | 14 days | LC50 | 544 mg/kg (Dry Weight) |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Turnip | Experimental | 21 days | ErC50 | 46.8 mg/kg (Dry Weight) |

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|----------------|-----------|------------------|--------------|----------|------|------------------------------|
| salicylic acid | 69-72-7 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| salicylic acid | 69-72-7 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| salicylic acid | 69-72-7 | Water flea | Experimental | 48 hours | EC50 | 870 mg/l |
| salicylic acid | 69-72-7 | Water flea | Experimental | 21 days | NOEC | 10 mg/l |
| salicylic acid | 69-72-7 | Activated sludge | Experimental | 3 hours | EC50 | >3,200 |
| salicylic acid | 69-72-7 | Bacteria | Experimental | 18 hours | EC10 | 465 |
| 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 |
| toluene | 108-88-3 | Coho Salmon | Experimental | 96 hours | LC50 | 5.5 mg/l |
| toluene | 108-88-3 | Grass Shrimp | Experimental | 96 hours | LC50 | 9.5 mg/l |
| toluene | 108-88-3 | Green algae | Experimental | 72 hours | EC50 | 12.5 mg/l |
| toluene | 108-88-3 | Leopard frog | Experimental | 9 days | LC50 | 0.39 mg/l |
| toluene | 108-88-3 | Pink Salmon | Experimental | 96 hours | LC50 | 6.41 mg/l |
| toluene | 108-88-3 | Water flea | Experimental | 48 hours | EC50 | 3.78 mg/l |
| toluene | 108-88-3 | Coho Salmon | Experimental | 40 days | NOEC | 1.39 mg/l |
| toluene | 108-88-3 | Diatom | Experimental | 72 hours | NOEC | 10 mg/l |
| toluene | 108-88-3 | Water flea | Experimental | 7 days | NOEC | 0.74 mg/l |
| toluene | 108-88-3 | Activated sludge | Experimental | 12 hours | IC50 | 292 mg/l |
| toluene | 108-88-3 | Bacteria | Experimental | 16 hours | NOEC | 29 mg/l |
| toluene | 108-88-3 | Bacteria | Experimental | 24 hours | EC50 | 84 mg/l |
| toluene | 108-88-3 | Redworm | Experimental | 28 days | LC50 | >150 mg per kg of bodyweight |
| toluene | 108-88-3 | Soil microbes | Experimental | 28 days | NOEC | <26 mg/kg (Dry Weight) |

12.2. Persistence and degradability

| Material | Identifier(s) | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------------------|---------------|-----------------------------------|----------|------------|--------------|-------------------------------------|
| butanone | 78-93-3 | Experimental Biodegradation | 28 days | BOD | 98 %BOD/ThOD | OECD 301D - Closed bottle test |
| Acrylonitrile - butadiene polymer | 9003-18-3 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| FUMARATED ROSIN | 65997-04-8 | Experimental Biodegradation | 28 days | BOD | 15 %BOD/ThOD | OECD 301D - Closed bottle test |
| Limestone | 1317-65-3 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| 4-methylpentan-2-one | 108-10-1 | Experimental Biodegradation | 28 days | BOD | 83 %BOD/ThOD | OECD 301F - Manometric respirometry |

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|-------------------------------|------------|-----------------------------------|---------|-------------------------------|-----------------------------------|-----------------------------------|
| 4-methylpentan-2-one | 108-10-1 | Experimental Photolysis | | Photolytic half-life (in air) | 2.3 days (t 1/2) | |
| Iron(III) oxide | 1309-37-1 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Titanium dioxide | 13463-67-7 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Experimental Biodegradation | 28 days | CO2 evolution | 87 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| salicylic acid | 69-72-7 | Experimental Biodegradation | 14 days | BOD | 88.1 %BOD/ThOD | OECD 301C - MITI test (I) |
| zinc oxide | 1314-13-2 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| toluene | 108-88-3 | Experimental Biodegradation | 20 days | BOD | 80 %BOD/ThOD | APHA Std Meth Water/Wastewater |
| toluene | 108-88-3 | Experimental Photolysis | | Photolytic half-life (in air) | 5.2 days (t 1/2) | |

12.3 : Bioaccumulative potential

| Material | Identifier(s) | Test type | Duration | Study Type | Test result | Protocol |
|-----------------------------------|---------------|---|----------|------------------------|-------------|------------------------------|
| butanone | 78-93-3 | Experimental Bioconcentration | | Log Kow | 0.3 | OECD 117 log Kow HPLC method |
| Acrylonitrile - butadiene polymer | 9003-18-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| FUMARATED ROSIN | 65997-04-8 | Experimental Bioconcentration | | Log Kow | ≥4.4 | OECD 117 log Kow HPLC method |
| Limestone | 1317-65-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 4-methylpentan-2-one | 108-10-1 | Experimental Bioconcentration | | Log Kow | 1.9 | OECD 117 log Kow HPLC method |
| Iron(III) oxide | 1309-37-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Titanium dioxide | 13463-67-7 | Experimental BCF - Fish | 42 days | Bioaccumulation factor | 9.6 | |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Experimental BCF - Fish | | Bioaccumulation factor | <5.8 | similar to OECD 305 |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Experimental Bioconcentration | | Log Kow | 3.75 | |
| salicylic acid | 69-72-7 | Experimental Bioconcentration | | Log Kow | 2.26 | |
| zinc oxide | 1314-13-2 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | ≤217 | OECD305-Bioconcentration |
| toluene | 108-88-3 | Experimental BCF - Other | 72 hours | Bioaccumulation factor | 90 | |
| toluene | 108-88-3 | Experimental Bioconcentration | | Log Kow | 2.73 | |

12.4. Mobility in soil

| Material | Identifier(s) | Test type | Study Type | Test result | Protocol |
|-------------------------------|---------------|-------------------------------|------------|-------------|--------------------------------|
| 4-methylpentan-2-one | 108-10-1 | Modeled Mobility in Soil | Koc | 150 l/kg | Episuite™ |
| Tris(2-butoxyethyl) phosphate | 78-51-3 | Experimental Mobility in Soil | Koc | 299.2 l/kg | OECD 121 Estim. of Koc by HPLC |
| salicylic acid | 69-72-7 | Modeled Mobility in Soil | Koc | <1 l/kg | Episuite™ |

| | | | | | |
|---------|----------|----------------------------------|-----|-------------|--|
| toluene | 108-88-3 | Experimental Mobility in Soil | Koc | 37-160 l/kg | |
|---------|----------|----------------------------------|-----|-------------|--|

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.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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 | II | II | II |
| 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 | 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

| <u>Ingredient</u> | <u>Identifier(s)</u> | <u>Classification</u> | <u>Regulation</u> |
|----------------------|----------------------|-------------------------------|---|
| Iron(III) oxide | 1309-37-1 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| 4-methylpentan-2-one | 108-10-1 | Carc. 2 | The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain, UK Mandatory Classification and Labelling list |
| 4-methylpentan-2-one | 108-10-1 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| toluene | 108-88-3 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

Restrictions on the manufacture, placing on the market and use:

The following substance(s) contained in this product is/are subject to Annex XVII of regulation (EC) 1907/2006, as amended for GB, with regard to restrictions on the manufacture, placing on the market and use when present in certain dangerous conditions. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

| <u>Ingredient</u> | <u>Identifier(s)</u> |
|-------------------|----------------------|
|-------------------|----------------------|

toluene

108-88-3

Restriction status: listed in UK REACH Annex XVII

Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 as amended for Great Britain for Conditions of Restriction

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 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 Philippines RA 6969 requirements. 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 |
| 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, 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. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |

| | |
|-------|--|
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Revision information:

Section 14 - Not Hazardous for Transportation information was added.
 EU Section 14 - Table Data information was added.
 EU Section 14 - Table Headers information was added.
 GBSDS Section 14 Transport in bulk - Main Heading information was deleted.
 GBSDS Section 14 UN Number information was deleted.
 Label: Graphic information was modified.
 Section 6: Accidental release personal information information was modified.
 Section 9: Vapour pressure value information was added.
 Section 9: Vapour pressure value information was deleted.
 Section 11: Acute Toxicity table information was modified.
 Section 11: Carcinogenicity Table information was modified.
 Section 11: Germ Cell Mutagenicity Table information was modified.
 Section 11: Health Effects - Skin information 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 14 Classification Code – Main Heading information was deleted.
 Section 14 Classification Code – Regulation Data information was deleted.
 Section 14 Control Temperature – Main Heading information was deleted.
 Section 14 Control Temperature – Regulation Data information was deleted.
 Section 14 Emergency Temperature – Main Heading information was deleted.
 Section 14 Emergency Temperature – Regulation Data information was deleted.
 Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.
 Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.
 Section 14 Other Dangerous Goods – Main Heading information was deleted.
 Section 14 Other Dangerous Goods – Regulation Data information was deleted.
 Section 14 Packing Group – Main Heading information was deleted.
 Section 14 Packing Group – Regulation Data information was deleted.
 Section 14 Proper Shipping Name information was deleted.
 Section 14 Regulations – Main Headings information was deleted.
 Section 14 Segregation – Regulation Data information was deleted.
 Section 14 Segregation Code – Main Heading information was deleted.
 Section 14 Special Precautions – Main Heading information was deleted.
 Section 14 Special Precautions – Regulation Data information was deleted.
 Section 14 Transport in bulk – Regulation Data information was deleted.
 Section 14 UN Number Column data information was deleted.

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you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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