# 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™ Adhesion Promoter No. 86A

**Product Identification Numbers**
70-0707-4280-7

7000002051

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

**Identified uses**
Automotive.

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

| | |
|---|---|
| **Address:** | 3M 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:**

Flammable Liquid, Category 2 - Flam. Liq. 2; H225
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

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) |

**Pictograms**



| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|---|---|---|
| propan-2-ol | 67-63-0 | 200-661-7 | 40 - 60 |
| propan-1-ol | 71-23-8 | 200-746-9 | 30 - 45 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261A | Avoid breathing vapours. |
| P280A | Wear eye/face 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. |
| P370 + P378 | In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish. |

**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 |
|---|---|---|---|
| propan-2-ol | (CAS-No.) 67-63-0<br>(EC-No.) 200-661-7 | 40 - 60 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |
| propan-1-ol | (CAS-No.) 71-23-8<br>(EC-No.) 200-746-9 | 30 - 45 | Flam. Liq. 2, H225<br>Eye Dam. 1, H318<br>STOT SE 3, H336 |
| POLYIMIDE RESIN | Trade Secret | 5 - 10 | Substance not classified as hazardous |
| Water | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2 | < 4 | Substance not classified as hazardous |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | (CAS-No.) 68411-46-1<br>(EC-No.) 270-128-1 | < 0.25 | Repr. 2, H361f<br>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:
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**

| Substance | Condition |
|---|---|
| Hydrocarbons. | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Oxides of nitrogen. | 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in

eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. 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 acids. Store away from oxidising agents.

**7.3. Specific end use(s)**
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| propan-2-ol | 67-63-0 | UK HSE | TWA:999 mg/m³(400 ppm);STEL:1250 mg/m³(500 ppm) | |
| propan-1-ol | 71-23-8 | UK HSE | TWA:500 mg/m3(200 ppm);STEL:625 mg/m3(250 ppm) | SKIN |

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

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

**8.2. Exposure controls**

**8.2.1. Engineering controls**
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:
Safety glasses with side shields.
Indirect vented goggles.

*Applicable Norms/Standards*
Use eye protection conforming to EN 16321

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the

results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended:

| Material | Thickness (mm) | Breakthrough Time |
|---|---|---|
| Butyl rubber. | 0.5 | =>8 hours |
| Fluoroelastomer | 0.4 | =>8 hours |
| Nitrile rubber. | 0.35 | =>8 hours |

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

*Applicable Norms/Standards*
Use gloves tested to EN 374

**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** | Colourless |
| **Odor** | Slight Solvent |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | approximately 82.8 ºC |
| **Flammability** | Flammable Liquid: Category 2. |
| **Flammable Limits(LEL)** | 2 % volume |
| **Flammable Limits(UEL)** | 12.7 % volume |
| **Flash point** | 11.7 ºC [*Test Method:*Closed Cup] |
| **Autoignition temperature** | 398.9 ºC |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-polar/aprotic* |
| **Kinematic Viscosity** | 91.5 mm²/sec |
| **Water solubility** | Appreciable |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | 33 mm Hg [@ 68 ºF] |
| **Density** | *No data available.* |
| **Relative density** | 0.82 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | 2.1 [*Ref Std:*AIR=1] |

| | |
|---|---|
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | 741 g/l |
| **Evaporation rate** | *No data available.* |
| **Molecular weight** | *No data available.* |

## 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**
Sparks and/or flames.

**10.5 Incompatible materials**
Strong oxidising agents.

**10.6 Hazardous decomposition products**

| **Substance** | **Condition** |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not 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**
Prolonged or repeated exposure may cause: Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

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

**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 >2,000 - =5,000 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 |
| propan-1-ol | Dermal | Rabbit | LD50 4,000 mg/kg |
| propan-1-ol | Inhalation-Vapour (4 hours) | Rat | LC50 > 34 mg/l |
| propan-1-ol | Ingestion | Rat | LD50 estimated to be 2,000 - 5,000 mg/kg |
| POLYIMIDE RESIN | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| POLYIMIDE RESIN | Ingestion | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Dermal | Rat | LD50 > 2,000 mg/kg |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| propan-2-ol | Multiple animal species | No significant irritation |

| | | |
|---|---|---|
| propan-1-ol | Rabbit | Minimal irritation |
| POLYIMIDE RESIN | Professional judgement | No significant irritation |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Rabbit | Mild irritant |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| propan-2-ol | Rabbit | Severe irritant |
| propan-1-ol | Rabbit | Severe irritant |
| POLYIMIDE RESIN | Professional judgement | No significant irritation |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Rabbit | Mild irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| propan-2-ol | Guinea pig | Not classified |
| propan-1-ol | Guinea pig | Not classified |
| POLYIMIDE RESIN | Professional judgement | Not classified |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Guinea pig | Not classified |

**Respiratory Sensitisation**

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

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| propan-2-ol | In Vitro | Not mutagenic |
| propan-2-ol | In vivo | Not mutagenic |
| propan-1-ol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| propan-2-ol | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| propan-1-ol | Ingestion | Rat | 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 |
|---|---|---|---|---|---|
| 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 | during |

| | | | | | |
|---|---|---|---|---|---|
| | | | | mg/kg/day | organogenesis |
| propan-2-ol | Inhalation | Not classified for development | Rat | LOAEL 9 mg/l | during gestation |
| propan-1-ol | Inhalation | Not classified for male reproduction | Rat | NOAEL 8.6 mg/l | 6 weeks |
| propan-1-ol | Inhalation | Not classified for development | Rat | NOAEL 8.6 mg/l | during gestation |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | Not classified for male reproduction | Rat | NOAEL 54 mg/kg/day | 2 generation |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | Not classified for development | Rat | NOAEL 18 mg/kg/day | 2 generation |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | Toxic to female reproduction | Rat | NOAEL 54 mg/kg/day | 2 generation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 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 |
| propan-1-ol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Mouse | NOAEL 5 mg/l | 4 hours |
| propan-1-ol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Mouse | NOAEL Not available | |
| propan-1-ol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 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 |
|---|---|---|---|---|---|---|
| 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 |
| propan-1-ol | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 70 mg/kg/day | 83 weeks |
| propan-1-ol | Ingestion | liver | Not classified | Rat | LOAEL 70 mg/kg/day | 83 weeks |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 54 mg/kg/day | 98 days |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Ingestion | endocrine system \| liver \| kidney and/or bladder \| heart \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| hematopoietic system \| immune system \| muscles \| | Not classified | Rat | NOAEL 225 mg/kg/day | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | eyes \| respiratory system | | | | |

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

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

**11.2. Information on other hazards**

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

## SECTION 12: Ecological information

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

**12.1. Toxicity**

No product test data available.

| Material | CAS # | Organism | Type | Exposure | Test endpoint | Test result |
|---|---|---|---|---|---|---|
| propan-2-ol | 67-63-0 | Bacteria | Experimental | 16 hours | LOEC | 1,050 mg/l |
| propan-2-ol | 67-63-0 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| propan-2-ol | 67-63-0 | Invertebrate | Experimental | 24 hours | LC50 | >10,000 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-1-ol | 71-23-8 | Activated sludge | Experimental | 3 hours | IC50 | >1,000 mg/l |
| propan-1-ol | 71-23-8 | Algae or other aquatic plants | Experimental | 96 hours | EC50 | 4,480 mg/l |
| propan-1-ol | 71-23-8 | Fathead minnow | Experimental | 96 hours | LC50 | 4,555 mg/l |
| propan-1-ol | 71-23-8 | Fish | Experimental | 96 hours | LC50 | 3,000 mg/l |
| propan-1-ol | 71-23-8 | Water flea | Experimental | 48 hours | EC50 | 3,642 mg/l |
| propan-1-ol | 71-23-8 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| POLYIMIDE RESIN | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | Water flea | Experimental | 24 hours | EC50 | 0.82 mg/l |
| Benzenamine, N-phenyl-, reaction products with 2,4,4- | 68411-46-1 | Zebra Fish | Experimental | 96 hours | LC50 | >47.05 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| trimethylpentene | | | | | | |

**12.2. Persistence and degradability**

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| propan-2-ol | 67-63-0 | Experimental Biodegradation | 14 days | BOD | 86 %BOD/ThOD | OECD 301C - MITI test (I) |
| propan-1-ol | 71-23-8 | Experimental Biodegradation | 20 days | BOD | 73 %BOD/ThOD | OECD 301D - Closed bottle test |
| POLYIMIDE RESIN | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | Experimental Biodegradation | 28 days | CO2 evolution | <=1 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |

**12.3 : Bioaccumulative potential**

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| propan-2-ol | 67-63-0 | Experimental Bioconcentration | | Log Kow | 0.05 | |
| propan-1-ol | 71-23-8 | Experimental Bioconcentration | | Log Kow | 0.2 | |
| POLYIMIDE RESIN | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 | Analogous Compound BCF - Fish | 42 days | Bioaccumulation factor | 1730 | |

**12.4. Mobility in soil**
No test data available.

**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)**

070104* Other organic solvents, washing liquids and mother liquors
20 01 13* Solvents

## SECTION 14: Transportation information

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|---|---|---|
| **14.1 - UN Number or ID number** | UN1987 | UN1987 | UN1987 |
| **14.2 UN proper shipping name** | ALCOHOLS, N.O.S.(ISOPROPYL ALCOHOL; PROPYL ALCOHOL) | ALCOHOLS, N.O.S.(ISOPROPYL ALCOHOL; PROPYL ALCOHOL) | ALCOHOLS, N.O.S.(ISOPROPYL ALCOHOL; PROPYL ALCOHOL) |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 |
| **14.4 Packing group** | II | II | II |
| **14.5 Environmental hazards** | Not Environmentally Hazardous | Not applicable. | Not a Marine Pollutant |
| **14.6 Special precautions for user** | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| **14.7 Marine Transport in bulk according to IMO instruments** | No data available. | No data available. | No data available. |
| **Control Temperature** | No data available. | No data available. | No data available. |
| **Emergency Temperature** | No data available. | No data available. | No data available. |
| **ADR Classification Code** | F1 | Not applicable. | Not applicable. |
| **IMDG Segregation Code** | Not applicable. | Not applicable. | NONE |

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

## SECTION 15: Regulatory information

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

**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 product are in compliance with the new substance notification requirements of CEPA.

**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**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Revision information:**
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 9: Vapour pressure value 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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**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.