# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document group:** | 34-8188-4 | **Version number:** | 4.01 |
| **Revision date:** | 23/02/2026 | **Supersedes date:** | 12/02/2025 |
| **Transportation version number:** | | | |

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

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

**1.1. Product identifier**
3M™ Scotch-Weld™ Repair Paste 2220 B/A

**Product Identification Numbers**
70-2022-8148-4

7100159064

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

**Identified uses**
Polyurethane Protective Tape Repair Paste

**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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:**

34-8209-8, 34-8211-4

## TRANSPORTATION INFORMATION

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

# KIT LABEL

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

**CLASSIFICATION:**
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 2 - Repr. 2; H361f
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

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

**SIGNAL WORD**
DANGER.

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

**Pictograms**



**Contains:**
Butane-1,4-diol; PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR; Zeolites; Polyurethane Prepolymer; 4,4'-methylenedi(cyclohexyl isocyanate); Proprietary homopolymer ; Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; HDI oligomers, isocyanurate

**HAZARD STATEMENTS:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H336 | May cause drowsiness or dizziness. |
| H335 | May cause respiratory irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P261A | Avoid breathing vapours. |

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P280K | Wear protective gloves and respiratory protection. |

**Response:**

| | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

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

**Information required per Regulation (EU) 2020/1149 as regards diisocyanates:**
**As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo**

**Revision information:**
Section 1: E-mail address information was modified.

# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document group:** | 34-8209-8 | **Version number:** | 3.01 |
| **Revision date:** | 13/02/2026 | **Supersedes date:** | 04/11/2025 |

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

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

**1.1. Product identifier**
3M™ Scotch-Weld™ Repair Paste 2220 B/A Part A

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

**Identified uses**
Part A of two component Polyurethane Protective Tape Repair Paste

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

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

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

## SECTION 2: Hazard identification

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

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

**CLASSIFICATION:**
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H335

For full text of H phrases, see Section 16.

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

**SIGNAL WORD**
DANGER.

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

**Pictograms**



| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | 225-863-2 | 15 - 30 |
| HDI oligomers, isocyanurate | | 931-274-8 | 5 - 15 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P261A | Avoid breathing vapours. |
| P280 | Wear protective gloves and eye protection. |

**Response:**

| | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. |

Contains 80% of components with unknown hazards to the aquatic environment.

**Information required per Regulation (EU) 2020/1149, amendment to REACH Regualtion (1907/2006) as amended for Great Britain, as regards diisocyanates:**
**As from 24 August 2023 adequate training is required before industrial or professional use. Further information can be found at feica.eu/Puinfo**

**2.3. Other hazards**

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.
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 |
|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | 50 - 80 | Substance not classified as hazardous |
| 4,4'-methylenedi(cyclohexyl isocyanate) | (CAS-No.) 5124-30-1<br>(EC-No.) 225-863-2 | 15 - 30 | Acute Tox. 2, H330<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Nota 2 |
| HDI oligomers, isocyanurate | (EC-No.) 931-274-8 | 5 - 15 | Acute Tox. 4, H332<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

**Specific Concentration Limits**

| Ingredient | Identifier(s) | Specific Concentration Limits |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | (CAS-No.) 5124-30-1<br>(EC-No.) 225-863-2 | (C >= 0.5%) Resp. Sens. 1, H334<br>(C >= 0.5%) Skin Sens. 1, H317 |

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**
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

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

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

The most important symptoms and effects based on the GB CLP classification include:
Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

**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 ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Isocyanates | During combustion. |
| Carbon monoxide | During combustion. |
| Carbon dioxide. | During combustion. |
| Hydrogen cyanide. | During combustion. |
| Oxides of nitrogen. | During combustion. |

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

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. 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. 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

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

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|---|---|---|---|
| Isocyanates, all (as -NCO) | 5124-30-1 | UK HSE | TWA(as NCO):0.02 mg/m3;STEL(as NCO):0.07 mg/m3 | Respiratory Sensitizer |

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

**Biological limit values**

| Ingredient | CAS Nbr | Agency | Determinant | Biological Specimen | Sampling Time | Value | Additional comments |
|---|---|---|---|---|---|---|---|
| ISOCYANATES (APPLIES TO HDI, IPDI, TDI AND MDI) | 5124-30-1 | UK EH40 BMGVs | Isocyanate-derived diamine | Creatinine in urine | EPE | 1 umol/mol | |

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)
EPE: At the end of the period of exposure.

**8.2. Exposure controls**

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

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

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

*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. | >0.30 | =>8 hours |

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

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates
Half facepiece or full facepiece supplied-air respirator

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

*Applicable Norms/Standards*
Use a respirator conforming to EN 140 or EN 136
Use a respirator conforming to EN 140 or EN 136: filter types A & P

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid. |
| **Specific Physical Form:** | Viscous liquid |
| **Colour** | Colourless |
| **Odor** | Slight Urethane |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | >=186 ºC |

| | |
|---|---|
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *Not applicable.* |
| **Flammable Limits(UEL)** | *Not applicable.* |
| **Flash point** | >=200 ºC [*Test Method:*Closed Cup] |
| **Autoignition temperature** | *Not applicable.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-soluble (in water)* |
| **Kinematic Viscosity** | 35,238 mm²/sec |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Density** | 1.05 g/ml |
| **Relative density** | 1.05 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *No data available.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | *No data available.* |
| **Evaporation rate** | *Not applicable.* |
| **Molecular weight** | *No data available.* |
| **Percent volatile** | *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**
Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

**10.5 Incompatible materials**
Amines.
Alcohols.
Water
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.
Strong acids.
Strong bases.
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. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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

**Eye contact**
Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion**
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

**Additional information:**
Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates.

**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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Dermal | Rat | LD50 > 7,000 mg/kg |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.33 mg/l |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Ingestion | Rat | LD50 18,200 mg/kg |
| HDI oligomers, isocyanurate | Inhalation-Dust/Mist | Professional judgement | LC50 estimated to be 1 - 5 mg/l |
| HDI oligomers, isocyanurate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| HDI oligomers, isocyanurate | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|

| | | |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Rabbit | Irritant |
| HDI oligomers, isocyanurate | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Rabbit | Mild irritant |
| HDI oligomers, isocyanurate | Rabbit | Mild irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Human and animal | Sensitising |
| HDI oligomers, isocyanurate | Guinea pig | Sensitising |

**Respiratory Sensitisation**

| Name | Species | Value |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Professional judgement | Sensitising |
| HDI oligomers, isocyanurate | similar compounds | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | In Vitro | Not mutagenic |
| HDI oligomers, isocyanurate | In Vitro | Not mutagenic |
| HDI oligomers, isocyanurate | In vivo | Not mutagenic |

**Carcinogenicity**

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

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | Not classified for female reproduction | Rat | NOAEL 6 mg/m³ | premating into lactation |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | Not classified for male reproduction | Rat | NOAEL 6 mg/m³ | 28 days |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | Not classified for development | Rat | NOAEL 6 mg/m³ | during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | NOAEL not available | |

| | | | | | | |
|---|---|---|---|---|---|---|
| HDI oligomers, isocyanurate | Inhalation | respiratory irritation | May cause respiratory irritation | | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | respiratory system | Not classified | Rat | NOAEL 3 mg/m³ | 90 days |
| 4,4'-methylenedi(cyclohexyl isocyanate) | Inhalation | heart \| skin \| endocrine system \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| hematopoietic system \| liver \| immune system \| muscles \| nervous system \| eyes \| kidney and/or bladder \| vascular system | Not classified | Rat | NOAEL 18 mg/m³ | 90 days |
| HDI oligomers, isocyanurate | Inhalation | immune system \| blood | Not classified | Rat | NOAEL 0.084 mg/l | 2 weeks |

**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 |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Water flea | Estimated | 48 hours | EC50 | 7.07 mg/l |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Activated sludge | Experimental | 3 hours | EC50 | 19 mg/l |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Green algae | Experimental | 72 hours | EC50 | >5 mg/l |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Zebra Fish | Experimental | 96 hours | LC50 | 1.2 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Green algae | Experimental | 72 hours | EC10 | 1.2 mg/l |

**12.2. Persistence and degradability**

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Experimental Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301F - Manometric respirometry |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Experimental Hydrolysis | | Hydrolytic half-life | 1.97 hours (t 1/2) | |

**12.3 : Bioaccumulative potential**

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 4,4'-methylenedi(cyclohexyl isocyanate) | 5124-30-1 | Estimated Bioconcentration | | Log Kow | 2.03 | |

**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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

Not hazardous for transportation.

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|---|---|---|---|
| **14.1 UN number** | No data available. | No data available. | No data available. |
| **14.2 UN proper shipping name** | No data available. | No data available. | No data available. |
| **14.3 Transport hazard class(es)** | No data available. | No data available. | No data available. |
| **14.4 Packing group** | No data available. | No data available. | No data available. |
| **14.5 Environmental hazards** | No data available. | No data available. | No data available. |
| **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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code** | 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** | No data available. | No data available. | No data available. |
| **IMDG Segregation Code** | No data available. | No data available. | No data available. |

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**

**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.

| Ingredient | CAS Nbr |
|---|---|

4,4'-methylenedi(cyclohexyl isocyanate) 5124-30-1

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.

**COMAH Regulation, SI 2015/483**
Seveso hazard categories, Annex 1, Part 1
None

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**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |

**List of Relevant Notas**

| | |
|---|---|
| Nota 2 | The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture. |

**Revision information:**
Label: CLP Precautionary - Prevention information was modified.
Section 9: Property description for optional properties information was modified.
Section 16: Two-column table displaying the unique list of Notas for all components of the given material. information was added.

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

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

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

# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document group:** | 34-8211-4 | **Version number:** | 2.03 |
| **Revision date:** | 13/02/2026 | **Supersedes date:** | 03/02/2025 |

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

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

**1.1. Product identifier**
3M™ Scotch-Weld™ Repair Paste 2220 B/A Part B

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

**Identified uses**
Part B of two component Polyurethane Protective Tape Repair Paste

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

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

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

## SECTION 2: Hazard identification

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

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

**CLASSIFICATION:**
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 2 - Repr. 2; H361f
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

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

**SIGNAL WORD**
WARNING.

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

**Pictograms**



| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | | 65 - 90 |
| Butane-1,4-diol | 110-63-4 | 203-786-5 | 1 - 25 |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | | <= 5 |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | | 915-687-0 | < 5 |
| Zeolites | 1318-02-1 | 215-283-8 | < 5 |
| Proprietary homopolymer | Trade Secret | | <= 5 |

**HAZARD STATEMENTS:**

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H361f | Suspected of damaging fertility. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

**PRECAUTIONARY STATEMENTS**

**Prevention:**

| | |
|---|---|
| P261A | Avoid breathing vapours. |
| P273 | Avoid release to the environment. |
| P280K | Wear protective gloves and respiratory protection. |

**Response:**

| | |
|---|---|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P391 | Collect spillage. |

Contains 85% 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 |
|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | 65 - 90 | Substance not classified as hazardous |
| Butane-1,4-diol | (CAS-No.) 110-63-4<br>(EC-No.) 203-786-5 | 1 - 25 | Acute Tox. 4, H302<br>STOT SE 3, H336 |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | (CAS-No.) 125304-04-3 | <= 5 | Aquatic Chronic 4, H413 |
| Zeolites | (CAS-No.) 1318-02-1<br>(EC-No.) 215-283-8 | < 5 | Substance with a national occupational exposure limit |
| Proprietary homopolymer | Trade Secret | <= 5 | Substance not classified as hazardous |

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**
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

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

**4.2. Most important symptoms and effects, both acute and delayed**
The most important symptoms and effects based on the GB CLP classification include:
Allergic skin reaction (redness, swelling, blistering, and itching). 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 ordinary combustible material such as water or foam 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 |
|---|---|
| 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. 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.

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

**6.3. Methods and material for containment and cleaning up**
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with 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. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators…) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed. Store away from heat. 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 |
|---|---|---|---|---|
| Aluminium oxides, inhalable dust | 1318-02-1 | UK HSE | TWA(as respirable dust):4 mg/m3;TWA(as inhalable dust):10 mg/m3 | |

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

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**
None required.

**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. |
| **Specific Physical Form:** | Viscous Liquid |
| **Colour** | Colourless |
| **Odor** | Slight Ester |
| **Odour threshold** | *No data available.* |
| **Melting point/freezing point** | *Not applicable.* |
| **Boiling point/boiling range** | *No data available.* |
| **Flammability** | Not applicable. |
| **Flammable Limits(LEL)** | *No data available.* |
| **Flammable Limits(UEL)** | *No data available.* |
| **Flash point** | >=93.3 ºC [*Test Method:*Closed Cup] |
| **Autoignition temperature** | *No data available.* |
| **Decomposition temperature** | *No data available.* |
| **pH** | *substance/mixture is non-soluble (in water)* |
| **Kinematic Viscosity** | 42,727 mm²/sec |
| **Water solubility** | Negligible |
| **Solubility- non-water** | *No data available.* |
| **Partition coefficient: n-octanol/water** | *No data available.* |
| **Vapour pressure** | *No data available.* |
| **Density** | 1.1 g/ml |
| **Relative density** | 1.1 [*Ref Std:*WATER=1] |
| **Relative Vapour Density** | *Not applicable.* |
| **Particle Characteristics** | *Not applicable.* |

**9.2. Other information**

**9.2.2 Other safety characteristics**

| | |
|---|---|
| **EU Volatile Organic Compounds** | *No data available.* |
| **Evaporation rate** | *Not applicable.* |
| **Molecular weight** | *No data available.* |
| **Percent volatile** | < 0.5 % 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.

**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**
Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye contact**
Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion**
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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Butane-1,4-diol | Dermal | Rat | LD50 > 5,000 mg/kg |
| Butane-1,4-diol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.1 mg/l |
| Butane-1,4-diol | Ingestion | Rat | LD50 1,500 mg/kg |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | Rat | LD50 3,125 mg/kg |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | Dermal | Rat | LD50 > 2,000 mg/kg |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Zeolites | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Zeolites | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4.57 mg/l |
| Zeolites | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Butane-1,4-diol | Rabbit | No significant irritation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rabbit | Minimal irritation |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | Rabbit | No significant irritation |
| Zeolites | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Butane-1,4-diol | Rabbit | Mild irritant |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Rabbit | Mild irritant |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | Rabbit | No significant irritation |
| Zeolites | Rabbit | Mild irritant |

**Skin Sensitisation**

| Name | Species | Value |
|---|---|---|
| Butane-1,4-diol | Human and animal | Not classified |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Guinea pig | Sensitising |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 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 |
|---|---|---|
| Butane-1,4-diol | In Vitro | Not mutagenic |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | In vivo | Not mutagenic |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

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

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|
| Butane-1,4-diol | Ingestion | Not classified for development | Mouse | NOAEL 600 mg/kg/day | during organogenesis |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Butane-1,4-diol | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 4.6 mg/l | 4 hours |
| Butane-1,4-diol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL Not available | not available |
| Butane-1,4-diol | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|---|---|---|---|---|---|
| Butane-1,4-diol | Inhalation | heart \| blood \| liver \| immune system | Not classified | Rat | NOAEL 5.2 mg/l | 2 weeks |
| Butane-1,4-diol | Inhalation | nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 0.5 mg/l | 4 months |
| Butane-1,4-diol | Ingestion | liver | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Ingestion | gastrointestinal tract \| liver \| immune system \| heart \| endocrine system \| hematopoietic system \| nervous system \| kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |

**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 |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Butane-1,4-diol | 110-63-4 | Fathead minnow | Experimental | 96 hours | LC50 | >30,000 mg/l |
| Butane-1,4-diol | 110-63-4 | Green algae | Experimental | 72 hours | ErC50 | >500 mg/l |
| Butane-1,4-diol | 110-63-4 | Water flea | Experimental | 48 hours | EC50 | 813 mg/l |
| Butane-1,4-diol | 110-63-4 | Green algae | Experimental | 72 hours | ErC10 | 76 mg/l |
| Butane-1,4-diol | 110-63-4 | Water flea | Experimental | 21 days | NOEC | 85 mg/l |
| Butane-1,4-diol | 110-63-4 | Activated sludge | Experimental | 30 minutes | EC20 | >788 mg/l |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Activated sludge | Experimental | 3 hours | EC50 | >100 mg/l |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4- | 125304-04-3 | Water flea | Experimental | 48 hours | No tox obs at lmt of water sol | >100 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| METHYL-, BRANCHED AND LINEAR | | | | | | |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| Proprietary homopolymer | Trade Secret | Bacteria | Estimated | 16 hours | NOEC | 461 mg/l |
| Proprietary homopolymer | Trade Secret | Green algae | Estimated | 72 hours | EC50 | 165 mg/l |
| Proprietary homopolymer | Trade Secret | Water flea | Estimated | 48 hours | EC50 | 290 mg/l |
| Proprietary homopolymer | Trade Secret | Zebra Fish | Estimated | 96 hours | LC50 | 72 mg/l |
| Proprietary homopolymer | Trade Secret | Green algae | Estimated | 72 hours | EC10 | 76 mg/l |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Green algae | Experimental | 72 hours | ErC50 | 1.68 mg/l |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Zebra Fish | Experimental | 96 hours | LC50 | 0.9 mg/l |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Green algae | Experimental | 72 hours | ErC10 | 0.34 mg/l |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Water flea | Experimental | 21 days | NOEC | 1 mg/l |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Activated sludge | Experimental | 3 hours | IC50 | >=100 mg/l |
| Zeolites | 1318-02-1 | African clawed frog | Analogous Compound | 96 hours | LC50 | 1,800 mg/l |

| | | | | | | |
|---|---|---|---|---|---|---|
| Zeolites | 1318-02-1 | Fathead minnow | Analogous Compound | 96 hours | LC50 | >680 mg/l |
| Zeolites | 1318-02-1 | Green algae | Analogous Compound | 72 hours | EC50 | 130 mg/l |
| Zeolites | 1318-02-1 | Sediment organism | Analogous Compound | 22 days | EC50 | 364.9 mg/l |
| Zeolites | 1318-02-1 | Water flea | Analogous Compound | 48 hours | EC50 | >100 mg/l |
| Zeolites | 1318-02-1 | Fathead minnow | Analogous Compound | 30 days | NOEC | 86.7 mg/l |
| Zeolites | 1318-02-1 | Green algae | Analogous Compound | 72 hours | NOEC | 18 mg/l |
| Zeolites | 1318-02-1 | Water flea | Analogous Compound | 21 days | NOEC | 32 mg/l |
| Zeolites | 1318-02-1 | Bacteria | Experimental | 16 hours | EC50 | 950 mg/l |
| Zeolites | 1318-02-1 | Radish | Experimental | 23 days | EC50 | 4,000 mg/kg (Dry Weight) |

### 12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Butane-1,4-diol | 110-63-4 | Experimental Biodegradation | 14 days | BOD | 83 %BOD/ThOD | OECD 301C - MITI test (I) |
| Butane-1,4-diol | 110-63-4 | Experimental Aquatic Inherent Biodegrad. | 10 days | Dissolv. Organic Carbon Deplet | 90 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |
| Butane-1,4-diol | 110-63-4 | Experimental Photolysis | | Photolytic half-life (in air) | 10.5 hours (t 1/2) | |
| Butane-1,4-diol | 110-63-4 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Experimental Biodegradation | 28 days | CO2 evolution | 13-19 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Proprietary homopolymer | Trade Secret | Estimated Biodegradation | 28 days | CO2 evolution | 84 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 38 %removal of DOC | OECD 301E - Modif. OECD Screen |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 68 days (t 1/2) | OECD 111 Hydrolysis func of pH |
| Zeolites | 1318-02-1 | Analogous Compound Hydrolysis | | Hydrolytic half-life | 60 days (t 1/2) | |

### 12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Polyurethane Prepolymer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Butane-1,4-diol | 110-63-4 | Experimental Bioconcentration | | Log Kow | -0.88 | OECD 107 log Kow shke flsk mtd |
| PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-DODECYL-4-METHYL-, BRANCHED AND LINEAR | 125304-04-3 | Experimental BCF - Fish | 29 days | Bioaccumulation factor | 179 | OECD305-Bioconcentration |
| Proprietary homopolymer | Trade Secret | Estimated Bioconcentration | | Log Kow | 2.8 | OECD 117 log Kow HPLC method |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Analogous Compound BCF - Fish | 56 days | Bioaccumulation factor | <31.4 | |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Experimental Bioconcentration | | Log Kow | 2.77 | OECD 107 log Kow shke flsk mtd |
| Zeolites | 1318-02-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

### 12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|---|---|---|---|---|
| Butane-1,4-diol | 110-63-4 | Modeled Mobility in Soil | Koc | <1 l/kg | Episuite™ |
| Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 915-687-0 | Modeled Mobility in Soil | Koc | 7 l/kg | Episuite™ |

### 12.5. Results of the PBT and vPvB assessment

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

### 12.6. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel

during incineration processes. 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** | UN3082 | UN3082 | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE; METHYL PENTAMETHYL-4-PIPERIDINYL SEBACATE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE; METHYL PENTAMETHYL-4-PIPERIDINYL SEBACATE) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE; METHYL PENTAMETHYL-4-PIPERIDINYL SEBACATE) |
| **14.3 Transport hazard class(es)** | 9 | 9 | 9 |
| **14.4 Packing group** | III | III | III |
| **14.5 Environmental hazards** | Environmentally Hazardous | Not applicable | Marine Pollutant |
| **14.6 Special precautions for user** | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| **14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code** | No data available. | No data available. | No data available. |
| **Control Temperature** | No data available. | No data available. | No data available. |
| **Emergency Temperature** | No data available. | No data available. | No data available. |
| **ADR Classification Code** | M6 | Not applicable. | Not applicable. |
| **IMDG Segregation** | Not applicable. | Not applicable. | NONE |

| | | | |
|---|---|---|---|
| **Code** | | | |

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

## SECTION 15: Regulatory information

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

**Carcinogenicity**

| Ingredient | CAS Nbr | Classification | Regulation |
|---|---|---|---|
| Zeolites | 1318-02-1 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

**Global inventory status**
Contact 3M for more information.

**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 |
| E2 Hazardous to the Aquatic environment | 200 | 500 |

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**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H317 | May cause an allergic skin reaction. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

**Revision information:**
Section 1: E-mail address information was modified.

Label: CLP Precautionary - Prevention information was modified.
Section 3: Composition/ Information of ingredients table information was modified.
Section 7: Conditions safe storage information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 08: Personal Protection - Apron Statement information was added.
Section 8: Personal Protection - Skin/body information information was deleted.
Section 8: Skin protection - protective clothing information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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