



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™ Composite Surfacing Film AF 536

Product Identification Numbers

UU-0110-1819-7 UU-0111-1029-1

7100233873 7100244338

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

Identified uses

Adhesive, Industrial use.

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
E Mail: tox.uk@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.

The eye damage/irritation classification is not applied due to the nature of this product (adhesive film).

CLASSIFICATION:

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

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

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) | GHS09 (Environment) |

Pictograms

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|------------|-----------|---------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | 216-823-5 | 20 - 45 |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | 60684-77-7 | | 10 - 25 |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | | < 10 |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | 500-062-3 | < 5 |

HAZARD STATEMENTS:

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS**Prevention:**

| | |
|-------|-----------------------------------|
| P273 | Avoid release to the environment. |
| P280E | Wear protective gloves. |

Response:

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

Contains 39% 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 |
|---|--|---------|--|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | (CAS-No.) 1675-54-3 (EC-No.) 216-823-5 | 20 - 45 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | (CAS-No.) 60684-77-7 | 10 - 25 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| butanone | (CAS-No.) 78-93-3 (EC-No.) 201-159-0 | < 20 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 |
| Oxide glass chemicals | (CAS-No.) 65997-17-3 (EC-No.) 266-046-0 | 7 - 13 | Substance with a national occupational exposure limit |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | (CAS-No.) 28906-96-9 | < 10 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| FIBERGLASS | None | < 7 | Substance not classified as hazardous |
| Flexiblizer | Trade Secret | < 7 | Substance not classified as hazardous |
| Curative 1 | Trade Secret | < 5 | Substance not classified as hazardous |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | (CAS-No.) 28390-91-2 (EC-No.) 500-062-3 | < 5 | Aquatic Chronic 2, H411 Skin Sens. 1, H317 |
| PENTAN-2-ONE | (CAS-No.) 107-87-9 (EC-No.) 203-528-1 | < 3 | Flam. Liq. 2, H225 Acute Tox. 4, H302 Eye Irrit. 2, H319 |
| Filler | Trade Secret | < 3 | Substance with a national occupational exposure limit |
| Adipohydrazide | (CAS-No.) 1071-93-8 (EC-No.) 213-999-5 | < 1 | Aquatic Chronic 2, H411 Skin Sens. 1B, H317 |

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 |
|---|---|---|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | (CAS-No.) 1675-54-3 (EC-No.) 216-823-5 | (C ≥ 5%) Skin Irrit. 2, H315 (C ≥ 5%) Eye Irrit. 2, H319 |

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

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If swallowed

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

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

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

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching).

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

Aldehydes.
Carbon monoxide
Carbon dioxide.
Hydrogen Chloride
Hydrogen cyanide.
Ammonia
Oxides of nitrogen.
Phosgene

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
During combustion.
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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

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

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. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. 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 |
|-------------------------|----------------|-------------------------|---|----------------------------|
| PENTAN-2-ONE | 107-87-9 | UK HSC | TWA:716 mg/m ³ (200 ppm);STEL:895 mg/m ³ (250 ppm) | |
| Glass, oxide, chemicals | 65997-17-3 | UK HSC | TWA(as fiber):5 mg/m ³ (1 fibers/ml) | |
| Oxide glass chemicals | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m ³ ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m ³ | |
| butanone | 78-93-3 | UK HSC | TWA: 600 mg/m ³ (200 ppm); STEL: 899 mg/m ³ (300 ppm) | SKIN |
| Filler | Trade Secret | UK HSC | TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³ | |

UK HSC : 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 |
|------------|---------|------------------|-------------|---------------------|---------------|-----------|---------------------|
| butanone | 78-93-3 | UK EH40 BMGVs | Butan-2-one | Urine | EOS | 70 umol/L | |

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

8.2. Exposure controls

8.2.1. Engineering controls

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

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

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

Applicable Norms/Standards

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | Solid. |
| Specific Physical Form: | Film |
| Colour | Beige |
| Odor | Low Epoxy |
| Odour threshold | <i>No data available.</i> |
| Melting point/freezing point | <i>No data available.</i> |
| Boiling point/boiling range | <i>Not applicable.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Flash point | No flash point |
| Autoignition temperature | <i>Not applicable.</i> |
| Decomposition temperature | <i>No data available.</i> |
| pH | <i>substance/mixture is non-soluble (in water)</i> |
| Kinematic Viscosity | <i>No data available.</i> |
| Water solubility | Nil |
| Solubility- non-water | <i>Not applicable.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <i>Not applicable.</i> |
| Density | <i>Not applicable.</i> |
| Relative density | <i>No data available.</i> |
| Relative Vapour Density | <i>Not applicable.</i> |
| Particle Characteristics | <i>Not applicable.</i> |

9.2. Other information**9.2.2 Other safety characteristics**

| | |
|--------------------------------------|---------------------------|
| EU Volatile Organic Compounds | <i>No data available.</i> |
| Evaporation rate | <i>Not applicable.</i> |
| Molecular weight | <i>No data available.</i> |
| Percent volatile | <i>No data available.</i> |

SECTION 10: Stability and reactivity**10.1 Reactivity**

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Amines.

10.6 Hazardous decomposition products

Substance

None known.

Condition

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

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

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

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|---|-----------------------------|------------------------|--|
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE >12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| butanone | Dermal | Rabbit | LD50 > 8,050 mg/kg |
| butanone | Inhalation-Vapour (4 hours) | Rat | LC50 34.5 mg/l |
| butanone | Ingestion | Rat | LD50 2,737 mg/kg |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Dermal | Professional judgement | LD50 estimated to be > 5,000 mg/kg |

| | | | |
|---|--------------------------------|------------------------|--|
| | | nt | |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Inhalation-Dust/Mist | Professional judgement | LC50 estimated to be > 12.5 mg/l |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Ingestion | Professional judgement | LD50 estimated to be > 5,000 mg/kg |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal | Rat | LD50 > 1,600 mg/kg |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Oxide glass chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Oxide glass chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Dermal | Rat | LD50 > 2,000 mg/kg |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Flexiblizer | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Flexiblizer | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Ingestion | Mouse | LD50 > 5,000 mg/kg |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| PENTAN-2-ONE | Inhalation-Vapour (4 hours) | Rat | LC50 > 25.5 mg/l |
| PENTAN-2-ONE | Ingestion | Rat | LD50 1,600 mg/kg |
| Curative 1 | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Curative 1 | Ingestion | Rat | LD50 > 30,000 mg/kg |
| Filler | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Filler | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Filler | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Adipohydrazide | Ingestion | Mouse | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| butanone | Rabbit | Minimal irritation |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professional judgement | Irritant |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Rabbit | Mild irritant |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professional judgement | Irritant |
| Flexiblizer | Professional judgement | Minimal irritation |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Rabbit | No significant irritation |
| PENTAN-2-ONE | Guinea pig | Minimal irritation |
| Curative 1 | Human and animal | Minimal irritation |
| Filler | Rabbit | No significant irritation |
| Adipohydrazide | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| butanone | Rabbit | Severe irritant |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professional judgement | Severe irritant |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Rabbit | Moderate irritant |
| Oxide glass chemicals | Professional judgement | No significant irritation |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professional judgement | Severe irritant |
| Flexiblizer | Professional judgement | Mild irritant |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Rabbit | Mild irritant |
| PENTAN-2-ONE | Rabbit | Moderate irritant |
| Curative 1 | Professional judgement | Mild irritant |
| Filler | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|---|------------------------|----------------|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | Professional judgement | Sensitising |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Human and animal | Sensitising |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Professional judgement | Sensitising |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Human and animal | Sensitising |
| Curative 1 | Guinea pig | Not classified |
| Filler | Human and animal | Not classified |
| Adipohydrazide | Guinea pig | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|---|---------|----------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|---------------|
| butanone | In Vitro | Not mutagenic |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | In vivo | Not mutagenic |

| | | |
|---|----------|--|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Oxide glass chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | In vivo | Some positive data exist, but the data are not sufficient for classification |
| PENTAN-2-ONE | In Vitro | Not mutagenic |
| Curative 1 | In Vitro | Not mutagenic |
| Filler | In Vitro | Not mutagenic |
| Adipohydrazide | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|----------------|-------------------------|--|
| butanone | Inhalation | Human | Not carcinogenic |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Oxide glass chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Curative 1 | Ingestion | Rat | Not carcinogenic |
| Filler | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|------------|--|---------|-----------------------|--------------------------------|
| butanone | Inhalation | Not classified for development | Rat | LOAEL 8.8 mg/l | during gestation |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Ingestion | Not classified for development | Rat | NOAEL 90 mg/kg/day | during gestation |
| PENTAN-2-ONE | Inhalation | Not classified for female reproduction | Rat | NOAEL 5 mg/l | prematuring & during gestation |
| PENTAN-2-ONE | Inhalation | Not classified for male reproduction | Rat | NOAEL 5 mg/l | 51 days |
| PENTAN-2-ONE | Inhalation | Not classified for development | Rat | NOAEL 5 mg/l | prematuring & during gestation |
| Curative 1 | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Curative 1 | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 44 days |
| Curative 1 | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | prematuring & during gestation |
| Filler | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Filler | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Filler | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|-----------------------------------|--|-------------------------|---------------------|-------------------|
| butanone | Inhalation | central nervous system depression | May cause drowsiness or dizziness | official classification | NOAEL Not available | |
| butanone | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| butanone | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Professional judgement | NOAEL Not available | |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | not applicable |
| butanone | Ingestion | kidney and/or bladder | Not classified | Rat | LOAEL 1,080 mg/kg | not applicable |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Professional judgement | NOAEL not available | |
| PENTAN-2-ONE | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|--|--|------------|-----------------------|-----------------------|
| butanone | Dermal | nervous system | Not classified | Guinea pig | NOAEL Not available | 31 weeks |
| butanone | Inhalation | liver kidney and/or bladder heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system immune system muscles | Not classified | Rat | NOAEL 14.7 mg/l | 90 days |
| butanone | Ingestion | liver | Not classified | Rat | NOAEL Not available | 7 days |
| butanone | Ingestion | nervous system | Not classified | Rat | NOAEL 173 mg/kg/day | 90 days |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Oxide glass chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | Ingestion | hematopoietic system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 50 mg/kg/day | 13 weeks |
| Benzenamine, 4,4'-methylenebis-, polymer | Ingestion | gastrointestinal tract liver immune | Not classified | Rat | NOAEL 200 mg/kg/day | 13 weeks |

| | | | | | | |
|-------------------------------|------------|---|----------------|-------|-----------------------------|--------------------------|
| with (chloromethyl)oxirane | | system nervous system eyes kidney and/or bladder | | | | |
| PENTAN-2-ONE | Inhalation | endocrine system liver respiratory system hematopoietic system nervous system eyes kidney and/or bladder | Not classified | Rat | NOAEL 5.3 mg/l | 13 weeks |
| Curative 1 | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 6,822 mg/kg/day | 13 weeks |
| Filler | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |

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 |
|--|------------|------------------|---|----------|---------------|-------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Activated sludge | Analogous Compound | 3 hours | IC50 | >100 mg/l |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Rainbow trout | Estimated | 96 hours | LC50 | 2 mg/l |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Water flea | Estimated | 48 hours | EC50 | 1.8 mg/l |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Green algae | Experimental | 72 hours | ErC50 | >11 mg/l |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Green algae | Experimental | 72 hours | NOEC | 4.2 mg/l |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Water flea | Experimental | 21 days | NOEC | 0.3 mg/l |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'- | 60684-77-7 | N/A | Data not available or insufficient for classification | N/A | N/A | n/a |

| | | | | | | |
|---|--------------|----------------|---|----------|-------|---------------------------|
| methylenebis[isocyanatobenzene] | | | | | | |
| butanone | 78-93-3 | Fathead minnow | Experimental | 96 hours | LC50 | 2,993 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC50 | 2,029 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 48 hours | EC50 | 308 mg/l |
| butanone | 78-93-3 | Green algae | Experimental | 96 hours | ErC10 | 1,289 mg/l |
| butanone | 78-93-3 | Water flea | Experimental | 21 days | NOEC | 100 mg/l |
| butanone | 78-93-3 | Bacteria | Experimental | 16 hours | LOEC | 1,150 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Flexiblizer | Trade Secret | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Bacteria | Experimental | 24 hours | IC50 | >10,000 mg/l |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Common Carp | Experimental | 96 hours | LC50 | 7 mg/l |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Green algae | Experimental | 72 hours | EC50 | >11 mg/l |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Water flea | Experimental | 48 hours | EC50 | 4.7 mg/l |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Green algae | Experimental | 72 hours | EC10 | 2.4 mg/l |
| Curative 1 | Trade Secret | Bluegill | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Curative 1 | Trade Secret | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Curative 1 | Trade Secret | Water flea | Experimental | 48 hours | EC50 | 3,177 mg/l |
| Curative 1 | Trade Secret | Green algae | Experimental | 72 hours | NOEC | 310 mg/l |
| Curative 1 | Trade Secret | Water flea | Experimental | 21 days | NOEC | 25 mg/l |
| Curative 1 | Trade Secret | Redworm | Experimental | 14 days | LC50 | >3,200 mg/kg (Dry Weight) |
| Filler | Trade Secret | N/A | Data not available or insufficient for | N/A | N/A | N/A |

| | | | classification | | | |
|----------------|-----------|------------------|----------------|----------|-------|-------------|
| PENTAN-2-ONE | 107-87-9 | Fathead minnow | Experimental | 96 hours | LC50 | 1,240 mg/l |
| PENTAN-2-ONE | 107-87-9 | Green algae | Experimental | 72 hours | EC50 | >150 mg/l |
| PENTAN-2-ONE | 107-87-9 | Water flea | Experimental | 48 hours | EC50 | >110 mg/l |
| PENTAN-2-ONE | 107-87-9 | Green algae | Experimental | 72 hours | NOEC | 73.77 mg/l |
| Adipohydrazide | 1071-93-8 | Activated sludge | Experimental | 3 hours | EC50 | >1,000 mg/l |
| Adipohydrazide | 1071-93-8 | Common Carp | Experimental | 96 hours | LC50 | >100 mg/l |
| Adipohydrazide | 1071-93-8 | Green algae | Experimental | 72 hours | ErC50 | 8.7 mg/l |
| Adipohydrazide | 1071-93-8 | Water flea | Experimental | 48 hours | EC50 | >=106 mg/l |
| Adipohydrazide | 1071-93-8 | Green algae | Experimental | 72 hours | NOEC | 0.22 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|---|--------------|--|----------|--------------------------------|------------------------------------|-------------------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Experimental Biodegradation | 28 days | BOD | 5 %BOD/COD | OECD 301F - Manometric respirometry |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | 117 hours (t 1/2) | OECD 111 Hydrolysis func of pH |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | 60684-77-7 | Estimated Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301C - MITI test (I) |
| butanone | 78-93-3 | Experimental Biodegradation | 28 days | BOD | 98 %BOD/ThOD | OECD 301D - Closed bottle test |
| Oxide glass chemicals | 65997-17-3 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Flexibilizer | Trade Secret | Data not available - insufficient | N/A | N/A | N/A | N/A |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Experimental Biodegradation | 28 days | CO2 evolution | 10 %CO2 evolution/THCO2 evolution | OECD 301B - Modified sturm or CO2 |
| Curative 1 | Trade Secret | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 0 %removal of DOC | OECD 301E - Modif. OECD Screen |
| Curative 1 | Trade Secret | Experimental Aquatic Inherent Biodegrad. | 14 days | Dissolv. Organic Carbon Deplet | 0 %removal of DOC | OECD 302B Zahn-Wellens/EVPA |
| Curative 1 | Trade Secret | Experimental Biodegradation | 61 days | CO2 evolution | 1.1 %CO2 evolution/THCO2 evolution | OECD 309 Aero Sim Biod Water |
| Filler | Trade Secret | Data not available - insufficient | N/A | N/A | N/A | N/A |
| PENTAN-2-ONE | 107-87-9 | Experimental Biodegradation | 28 days | BOD | 70 %BOD/ThOD | OECD 301D - Closed bottle test |
| Adipohydrazide | 1071-93-8 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 62.1 %removal of DOC | OECD 301E - Modif. OECD Screen |

| | | | | | | |
|----------------|-----------|-------------------------|--|-----------------------------|------------------|--------------------------------|
| Adipohydrazide | 1071-93-8 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | >1 years (t 1/2) | OECD 111 Hydrolysis func of pH |
|----------------|-----------|-------------------------|--|-----------------------------|------------------|--------------------------------|

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|--------------|---|----------|------------------------|-------------|---------------------------------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Experimental Bioconcentration | | Log Kow | 3.242 | OECD 117 log Kow HPLC method |
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, polymer with 1,1'-methylenebis[isocyanatobenzene] | 60684-77-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| butanone | 78-93-3 | Experimental Bioconcentration | | Log Kow | 0.3 | OECD 117 log Kow HPLC method |
| Oxide glass chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Bioconcentration | | Bioaccumulation factor | 5.7 | Catalogic™ |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Bioconcentration | | Log Kow | ≥5.7 | Episuite™ |
| Flexiblizer | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Benzenamine, 4,4'-methylenebis-, polymer with (chloromethyl)oxirane | 28390-91-2 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Curative 1 | Trade Secret | Experimental BCF - Fish | 42 days | Bioaccumulation factor | ≤3.1 | OECD305-Bioconcentration |
| Curative 1 | Trade Secret | Experimental Bioconcentration | | Log Kow | -0.52 | OECD 107 log Kow shke flask mtd |
| Filler | Trade Secret | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| PENTAN-2-ONE | 107-87-9 | Experimental Bioconcentration | | Log Kow | 0.91 | |
| Adipohydrazide | 1071-93-8 | Experimental Bioconcentration | | Log Kow | -2.7 | OECD 107 log Kow shke flask mtd |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---|--------------|--------------------------|------------|---------------|-----------|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Modeled Mobility in Soil | Koc | 450 l/kg | Episuite™ |
| Bisphenol A - epichlorhydrin - formaldehyde copolymer | 28906-96-9 | Modeled Mobility in Soil | Koc | ≥3.5E+07 l/kg | Episuite™ |
| Curative 1 | Trade Secret | Modeled Mobility in Soil | Koc | 9 l/kg | Episuite™ |
| Adipohydrazide | 1071-93-8 | Modeled Mobility in Soil | Koc | 10 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 waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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 | UN3077 | UN3077 | UN3077 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER-BISPHENOL A COPOLYMER) |
| 14.3 Transport hazard class(es) | 9 | 9 | 9 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |

| | | | |
|--|--------------------|--------------------|--------------------|
| 14.7 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 | M7 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |

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

SECTION 15: Regulatory information

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

Carcinogenicity

| <u>Ingredient</u> | <u>CAS Nbr</u> | <u>Classification</u> | <u>Regulation</u> |
|---|----------------|-------------------------|---|
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

| <u>Ingredient</u> | <u>CAS Nbr</u> |
|-------------------|----------------|
|-------------------|----------------|

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

| 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

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|----------------------|---------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| butanone | 78-93-3 | 10 | 50 |

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

No chemicals listed

15.2. Chemical Safety Assessment

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

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

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Revision information:

GB Section 02: CLP Ingredient table information was added.
 GB Section 02: Other hazards phrase information was added.
 GB Section 04: First Aid - Symptoms and Effects (GB CLP) information was added.
 GB Section 04: Information on toxicological effects information was added.
 GB Section 12: Classification Warning information was added.
 GB Section 15: Carcinogenicity information information was added.
 GB Section 15: Chemical Safety Assessment information was added.
 GBSDS Section 14 Transport in bulk - Main Heading information was added.
 GBSDS Section 14 UN Number information was added.
 CLP: Ingredient table information was deleted.
 Label: CLP Percent Unknown information was deleted.
 Section 02: Label Elements: GB Percent Unknown information was added.
 Section 2: Other hazards phrase information was deleted.
 Section 3: Composition/ Information of ingredients table information was added.
 Section 3: Composition/ Information of ingredients table information was deleted.
 Section 03: SCL table information was added.
 Section 03: SCL table information was deleted.
 Section 04: First Aid - Symptoms and Effects (CLP) information was deleted.
 Section 04: Information on toxicological effects information was deleted.
 Section 7: Precautions safe handling information information was modified.
 Section 8: Occupational exposure limit table information was modified.
 Section 09: Particle Characteristics N/A information was added.
 Section 9: Property description for optional properties information was modified.
 Section 9: Vapour density value information was modified.
 Section 11: Acute Toxicity table information was modified.
 Section 11: Cancer Hazards information information was added.
 Section 11: Carcinogenicity Table information was modified.
 Section 11: Classification disclaimer information was deleted.
 Section 11: GB Classification disclaimer information was added.
 Section 11: GB No endocrine disruptor information available warning information was added.
 Section 11: Germ Cell Mutagenicity Table information was modified.
 Section 11: Health Effects - Ingestion information information was modified.
 Section 11: Health Effects - Inhalation information information was modified.
 Section 11: No endocrine disruptor information available warning information was deleted.

Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was added.
Section 11: Target Organs - Repeated Table information was deleted.
Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was deleted.
Section 12: 12.6. Other adverse effects information was added.
Section 12: 12.7. Other adverse effects information was deleted.
Section 12: Classification Warning information was deleted.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was added.
Prints No Data if Adverse effects information is not present information was deleted.
Section 12: No Data text for mobility in soil information was deleted.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: No endocrine disruptor information available warning information was deleted.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 14 Classification Code – Regulation Data information was modified.
Section 14 Control Temperature – Regulation Data information was modified.
Section 14 Emergency Temperature – Regulation Data information was modified.
Section 14 Multiplier – Main Heading information was deleted.
Section 14 Multiplier – Regulation Data information was deleted.
Section 14 Other Dangerous Goods – Regulation Data information was modified.
Section 14 Proper Shipping Name information was modified.
Section 14 Segregation – Regulation Data information was modified.
Section 14 Transport Category – Main Heading information was deleted.
Section 14 Transport Category – Regulation Data information was deleted.
Section 14 Transport in bulk – Regulation Data information was modified.
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was deleted.
Section 14 Transport Not Permitted – Main Heading information was deleted.
Section 14 Transport Not Permitted – Regulation Data information was deleted.
Section 14 Tunnel Code – Main Heading information was deleted.
Section 14 Tunnel Code – Regulation Data information was deleted.
Section 14 UN Number information was deleted.
Section 15: Carcinogenicity information information was deleted.
Section 15: Chemical Safety Assessment information was deleted.
Section 15: Regulations - Inventories information was added.
Section 15: Seveso Hazard Category Text information was added.
Section 15: Seveso Substance Text information was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.
information was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material.
information was deleted.
Section 16: Web address information was added.
Section 16: Web address information was deleted.
Section 2: No PBT/vPvB information available warning 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.