



Safety Data Sheet

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| | | | |
|---------------------------------------|------------|-------------------------|------------|
| Document group: | 18-5063-5 | Version number: | 10.00 |
| Revision date: | 18/01/2024 | Supersedes date: | 08/07/2020 |
| 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 7260 B/A FC NS

Product Identification Numbers

FS-9100-3803-3 FS-9100-4291-0

7000080037 7000080132

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

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

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:

18-5011-4, 18-5062-7

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 1B - Skin Corr. 1B; H314

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318

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

Hazardous to the Aquatic Environment (Acute), Category 1 - Aquatic Acute 1; H400

Hazardous to the Aquatic Environment (Chronic), Category 1 - Aquatic Chronic 1; H410

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

GHS05 (Corrosion) | GHS07 (Exclamation mark) | GHS09 (Environment) |

Pictograms



Contains:

Kaolin; Titanium dioxide; 2-piperazin-1-ylethylamine; bis-[4-(2,3-epoxipropoxy)phenyl]propane; 3,3'-Oxybis(ethyleneoxy)bis(propylamine); Siloxanes and Silicones, di-Me, reaction products with silica; 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated; 2,4,6-tris(dimethylaminomethyl)phenol

HAZARD STATEMENTS:

| | |
|------|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H410 | Very toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|---|
| P260A | Do not breathe vapours. |
| P273 | Avoid release to the environment. |
| P280D | Wear protective gloves, protective clothing, and eye/face protection. |

Response:

| | |
|--------------------|--|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTRE or doctor/physician. |

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

Revision information:

GB Kit Information: CLP Percent Unknown information was added.

GB Label: CLP Ingredients - kit components information was added.

Label: CLP Percent Unknown - Kit information was deleted.

Kit: Component document group number(s) information was modified.

Label: CLP Ingredients - kit components information was deleted.

Label: CLP Classification information was modified.

Label: CLP Environmental Hazard Statements information was modified.

Label: CLP Precautionary - Disposal information was deleted.

Label: CLP Precautionary - Prevention information was modified.

Label: CLP Precautionary - Response information was modified.



Safety Data Sheet

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|---------------------------------------|------------|-------------------------|------------|
| Document group: | 18-5062-7 | Version number: | 13.02 |
| Revision date: | 08/07/2020 | Supersedes date: | 24/07/2019 |
| Transportation version number: | | | |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3M Scotch-Weld™ Epoxy Structural Adhesive 7260 B/A FC NS : Part B

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

Identified uses

Adhesive

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

CLP REGULATION (EC) No 1272/2008

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:

Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Skin Sensitization, Category 1A - Skin Sens. 1A; 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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

WARNING.

Symbols:

GHS07 (Exclamation mark) |GHS09 (Environment) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--|------------|-----------|---------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | 1675-54-3 | 216-823-5 | 10 - 30 |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | 500-006-8 | < 30 |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | 238-098-4 | 5 - 10 |

HAZARD STATEMENTS:

| | |
|------|--|
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

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

Response:

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

Disposal:

| | |
|------|--|
| P501 | Dispose of contents/container in accordance with applicable local/regional/national/international regulations. |
|------|--|

23% of the mixture consists of components of unknown acute oral toxicity.

Contains 26% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | EC No. | REACH Registration No. | % by Wt | Classification |
|--|----------------|---------------|---------------------------------------|----------------|---|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | 1675-54-3 | 216-823-5 | 01-2119456619-26 | 10 - 30 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Silica, vitreous | 60676-86-0 | 262-373-8 | | 10 - 30 | Substance with an occupational exposure limit |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | 500-006-8 | 01-2119454392-40 | < 30 | Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1A, H317 |
| Acrylic copolymer | Trade Secret | | | < 15 | Substance not classified as hazardous |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | 238-098-4 | | 5 - 10 | Aquatic Chronic 3, H412 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317 |
| Silicon dioxide | 7631-86-9 | 231-545-4 | 01-2119379499-16 | 1 - 5 | Substance with an occupational exposure limit |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | | | 1 - 5 | Substance with an occupational exposure limit |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | 219-784-2 | 01-2119513212-58 | < 3 | Eye Dam. 1, H318 |
| Carbon black | 1333-86-4 | 215-609-9 | 01-2119384822-32 | < 1 | Substance with an occupational exposure limit |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | 204-881-4 | | < 1 | Aquatic Chronic 1, H410,M=1 Aquatic Acute 1, H400,M=1 |

Please see section 16 for the full text of any H statements referred to in this section

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Carbon monoxide

Carbon dioxide.

Hydrogen Chloride

Condition

During combustion.

During combustion.

During combustion.

5.3. Advice for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), 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. 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

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

Keep container tightly closed. Store away from heat. Store away from acids. 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 |
|----------------------------|----------------|---------------|---|----------------------------|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | UK HSC | TWA:10 mg/m ³ | |
| Carbon black | 1333-86-4 | UK HSC | TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³ | |
| Silica, vitreous | 60676-86-0 | UK HSC | TWA(as respirable dust):0.08 mg/m ³ | |
| Silicon dioxide | 67762-90-7 | UK HSC | TWA(as respirable dust):2.4 mg/m ³ ;TWA(as inhalable dust):6 mg/m ³ | |
| Silicon dioxide | 7631-86-9 | 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

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

Recommended monitoring procedures:Information on recommended monitoring procedures can be obtained from UK HSC

8.2. Exposure controls**8.2.1. Engineering controls**

Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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:

Indirect vented goggles.

Applicable Norms/Standards

Use eye protection conforming to EN 166

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

Appearance

Physical state
Colour

Solid.
Black

Specific Physical Form:

Paste

Odor

Epoxy

Odour threshold

No data available.

pH

Not applicable.

Boiling point/boiling range

>=150 °C

Melting point

No data available.

Flammability (solid, gas)

Not classified

Explosive properties

Not classified

Oxidising properties

Not classified

Flash point

>=93.3 °C [*Test Method:*Closed Cup]

Autoignition temperature

No data available.

Flammable Limits(LEL)

Not applicable.

Flammable Limits(UEL)

Not applicable.

Vapour pressure

Not applicable.

Relative density

approximately 1.29 N/A [*Ref Std:*WATER=1]

Water solubility

Nil

Solubility- non-water

No data available.

Partition coefficient: n-octanol/water

No data available.

Evaporation rate

Not applicable.

Vapour density

Not applicable.

Decomposition temperature

No data available.

Viscosity 400 - 800 Pa-s [@ 23 °C]
Density No data available.

9.2. Other information

EU Volatile Organic Compounds No data available.
Percent volatile <=1 %

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.
Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU 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 Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact

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

Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the

cornea, and impaired vision.

Ingestion

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

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|--------------------------------|---------|--|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE5 - 12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Dermal | Rat | LD50 > 1,600 mg/kg |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 1.7 mg/l |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Silica, vitreous | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silica, vitreous | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Silica, vitreous | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.19 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Ingestion | Rat | LD50 1,098 mg/kg |
| Silicon dioxide | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Silicon dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Silicon dioxide | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Dermal | Rabbit | LD50 4,000 mg/kg |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.3 mg/l |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Ingestion | Rat | LD50 7,010 mg/kg |
| Carbon black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon black | Ingestion | Rat | LD50 > 8,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Rat | LD50 > 2,930 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--|---------|---------------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Rabbit | Mild irritant |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Rabbit | Mild irritant |

| | | |
|---|------------------|---------------------------|
| Silica, vitreous | Rabbit | No significant irritation |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | In vitro data | Irritant |
| Silicon dioxide | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Rabbit | Mild irritant |
| Carbon black | Rabbit | No significant irritation |
| 2,6-Di-tert-butyl-p-cresol | Human and animal | Minimal irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|---------------|---------------------------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Rabbit | Moderate irritant |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Rabbit | No significant irritation |
| Silica, vitreous | Rabbit | No significant irritation |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | In vitro data | No significant irritation |
| Silicon dioxide | Rabbit | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Rabbit | Corrosive |
| Carbon black | Rabbit | No significant irritation |
| 2,6-Di-tert-butyl-p-cresol | Rabbit | Mild irritant |

Skin Sensitisation

| Name | Species | Value |
|--|-------------------------|----------------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Human and animal | Sensitising |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | Multiple animal species | Sensitising |
| Silica, vitreous | Human and animal | Not classified |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Mouse | Sensitising |
| Silicon dioxide | Human and animal | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Guinea pig | Not classified |
| 2,6-Di-tert-butyl-p-cresol | Human | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | In vivo | Not mutagenic |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Silica, vitreous | In Vitro | Not mutagenic |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | In vivo | Not mutagenic |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | In Vitro | Some positive data exist, but the data are not |

| | | |
|---|----------|--|
| | | sufficient for classification |
| Silicon dioxide | In Vitro | Not mutagenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | In vivo | Not mutagenic |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon black | In Vitro | Not mutagenic |
| Carbon black | In vivo | Some positive data exist, but the data are not sufficient for classification |
| 2,6-Di-tert-butyl-p-cresol | In Vitro | Not mutagenic |
| 2,6-Di-tert-butyl-p-cresol | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|----------------|-------------------------|--|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Silica, vitreous | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Silicon dioxide | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Dermal | Mouse | Not carcinogenic |
| Carbon black | Dermal | Mouse | Not carcinogenic |
| Carbon black | Ingestion | Mouse | Not carcinogenic |
| Carbon black | Inhalation | Rat | Carcinogenic. |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Multiple animal species | 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 |
|---|------------|--|---------|-----------------------|--------------------------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Silica, vitreous | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silica, vitreous | Inhalation | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silica, vitreous | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Ingestion | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Ingestion | Not classified for male reproduction | Rat | NOAEL 300 mg/kg/day | 33 days |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Ingestion | Not classified for development | Rat | NOAEL 300 mg/kg/day | premating into lactation |
| Silicon dioxide | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Silicon dioxide | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Silicon dioxide | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |

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| | | | | | |
|---|-----------|--|-----|-----------------------|----------------------|
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Ingestion | Not classified for development | Rat | NOAEL 3,000 mg/kg/day | during organogenesis |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |

Target Organ(s)
Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|------------------------|--|------------------------|---------------------|-------------------|
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|---|----------------|---------|-----------------------|-----------------------|
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| bis-[4-(2,3-epoxypropoxy)phenyl]propane | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| bis-[4-(2,3-epoxypropoxy)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 |
| Silica, vitreous | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | Ingestion | endocrine system gastrointestinal tract liver heart hematopoietic system immune system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 300 mg/kg/day | 33 days |
| Silicon dioxide | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| [3-(2,3-Epoxypropoxy)propyl] trimethoxysilane | Ingestion | heart endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

| | | | | | | |
|----------------------------|------------|---|--|-------|-----------------------|-----------------------|
| | | nervous system kidney and/or bladder respiratory system | | | | |
| Carbon black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 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.

SECTION 12: Ecological information

The information below may not agree with the EU 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 | 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 | EC50 | >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 |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Crustacea | Experimental | 48 hours | EC50 | 1.6 mg/l |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Green Algae | Experimental | 72 hours | EC50 | 1.8 mg/l |

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| | | | | | | |
|--|------------|-----------------|---|----------|--------------------------------|--------------|
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Rainbow trout | Experimental | 96 hours | LC50 | 0.55 mg/l |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Water flea | Experimental | 21 days | NOEC | 0.3 mg/l |
| Silica, vitreous | 60676-86-0 | Common Carp | Experimental | 72 hours | LC50 | >10,000 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Green algae | Estimated | 72 hours | EC50 | 26.7 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Rainbow trout | Estimated | 96 hours | LC50 | 10.1 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Water flea | Estimated | 48 hours | EC50 | 16.3 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Green algae | Estimated | 72 hours | Effect Concentration 10% | 21.4 mg/l |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Water flea | Estimated | 21 days | NOEC | 11.7 mg/l |
| Silicon dioxide | 7631-86-9 | | Data not available or insufficient for classification | | | |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | | Data not available or insufficient for classification | | | |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Common Carp | Experimental | 96 hours | LC50 | 55 mg/l |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Crustacea other | Experimental | 48 hours | LC50 | 324 mg/l |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Green algae | Experimental | 96 hours | EC50 | 350 mg/l |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Green Algae | Experimental | 96 hours | NOEC | 130 mg/l |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Water flea | Experimental | 21 days | NOEC | >=100 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | EC50 | >0.4 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Water flea | Experimental | 48 hours | EC50 | 0.48 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | Effect Concentration 10% | 0.4 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Ricefish | Experimental | 42 days | NOEC | 0.053 mg/l |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Water flea | Experimental | 21 days | NOEC | 0.023 mg/l |
| Carbon black | 1333-86-4 | | Data not available or insufficient for classification | | | |

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 Hydrolysis | | Hydrolytic half-life | 117 hours (t 1/2) | Other methods |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Experimental Biodegradation | 28 days | BOD | 5 %BOD/COD | OECD 301F - Manometric respirometry |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Experimental Biodegradation | 28 days | CO2 evolution | 16 % weight | OECD 301B - Modified sturm or CO2 |
| Silica, vitreous | 60676-86-0 | Data not availbl-insufficient | | | N/A | |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Estimated Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 16.6 %removal of DOC | OECD 301F - Manometric respirometry |
| Silicon dioxide | 7631-86-9 | Data not availbl-insufficient | | | N/A | |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | Data not availbl-insufficient | | | N/A | |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Experimental Hydrolysis | | Hydrolytic half-life | 6.5 hours (t 1/2) | Other methods |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Experimental Biodegradation | 28 days | Dissolv. Organic Carbon Deplet | 37 % weight | Other methods |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Data not availbl-insufficient | | | N/A | |
| Carbon black | 1333-86-4 | Data not availbl-insufficient | | | N/A | |

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 | Other methods |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | 9003-36-5 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Silica, vitreous | 60676-86-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1,4-Bis[(2,3-epoxypropoxy)methyl]cyclohexane | 14228-73-0 | Estimated Bioconcentration | | Bioaccumulation factor | 3 | Estimated: Bioconcentration factor |
| Silicon dioxide | 7631-86-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane | 2530-83-8 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental BCF-Carp | 56 days | Bioaccumulation factor | 1277 | OECD 305E - Bioaccumulation flow-through fish test |
| Carbon black | 1333-86-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |

12.4. Mobility in soil

Please contact manufacturer for more details

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

No information available.

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
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

IATA: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Solid Epoxy Resin); 9; III.

Exemption: For vessels containing a net quantity of 5 l or a net mass of 5 kg or less per single or inner packaging, special provision 375 (ADR), exemption per 2.10.2.7 (IMDG) or special provision A197 (IATA) may be applied, if applicable

ADR: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Solid Epoxy Resin); 9; III; (-); M7.

IMDG: UN3077; Environmentally Hazardous Substance, Solid, N.O.S (Solid Epoxy Resin); 9; III; Marine Pollutant: Solid Epoxy Resin; EMS: FA, SF.

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> |
|---|----------------|-------------------------------|---|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| bis-[4-(2,3-epoxipropoxy)phenyl]propane | 1675-54-3 | Gr. 3: Not classifiable | International Agency for Research on Cancer |
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Silicon dioxide | 7631-86-9 | Gr. 3: Not classifiable | International Agency for Research on Cancer |

Ingredient

CAS Nbr

Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

| | |
|------|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |

Revision information:

Section 1: Product use information information was modified.

CLP: Ingredient table information was modified.

Label: CLP Percent Unknown information was modified.

Section 3: Composition/ Information of ingredients table information was modified.

Section 5: Hazardous combustion products table information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 09: Color information was added.

Section 09: Odor information was added.

Sections 3 and 9: Odour, colour, grade information information was deleted.

Section 9: Relative density information information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: 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 modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12: Biocumulative potential information information was modified.

Section 14: Transportation classification information was modified.

Section 15: Carcinogenicity information information was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

Section 16: UK disclaimer information was deleted.

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.

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Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 18-5011-4 | Version number: | 10.00 |
| Revision date: | 06/07/2021 | Supersedes date: | 08/07/2020 |

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

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

1.1. Product identifier

3M Scotch-Weld™ Epoxy Structural Adhesive 7260 B/A FC NS : Part A

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

Identified uses

Structural adhesive.

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

CLP REGULATION (EC) No 1272/2008

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 1B - Skin Corr. 1B; H314
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Skin Sensitization, Category 1A - Skin Sens. 1A; H317

For full text of H phrases, see Section 16.

2.2. Label elements**CLP REGULATION (EC) No 1272/2008****SIGNAL WORD**

DANGER.

Symbols

GHS05 (Corrosion) | GHS07 (Exclamation mark) |

Pictograms**Ingredients:**

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--|------------|-----------|---------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | 224-207-2 | 15 - 40 |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | 68683-29-4 | | 5 - 20 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | 202-013-9 | 3 - 7 |
| 2-piperazin-1-ylethylamine | 140-31-8 | 205-411-0 | < 1 |

HAZARD STATEMENTS:

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS**Prevention:**

P260A Do not breathe vapours.
 P280D Wear protective gloves, protective clothing, and eye/face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTRE or doctor/physician.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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

2.3. Other hazards

None known.

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] |
|--|---|---------|--|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | (CAS-No.) 4246-51-9 (EC-No.) 224-207-2 (REACH-No.) 01-2119963377-26 | 15 - 40 | Skin Sens. 1, H317 Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| Kaolin | (CAS-No.) 1332-58-7 (EC-No.) 310-194-1 | 15 - 40 | Substance with a national occupational exposure limit |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | (CAS-No.) 68683-29-4 | 5 - 20 | Skin Irrit. 2, H315 Skin Sens. 1A, H317 |
| 2,4,6-tris(dimethylaminomethyl)phenol | (CAS-No.) 90-72-2 (EC-No.) 202-013-9 (REACH-No.) 01-2119560597-27 | 3 - 7 | Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 |
| Siloxanes and Silicones, di-Me, reaction products with silica | (CAS-No.) 67762-90-7 | 1 - 5 | Substance with a national occupational exposure limit |
| 2-piperazin-1-ylethylamine | (CAS-No.) 140-31-8 (EC-No.) 205-411-0 | < 1 | Acute Tox. 3, H311 Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Repr. 2, H361d STOT RE 1, H372 |
| Titanium dioxide | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 | < 1 | Carc. 2, H351 (inhalation) |

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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If swallowed

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of 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

| <u>Substance</u> | <u>Condition</u> |
|---------------------|--------------------|
| Carbon monoxide | During combustion. |
| Carbon dioxide. | 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.

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. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. 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 away from heat. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|------------------|------------|--------|---|---------------------|
| Kaolin | 1332-58-7 | UK HSC | TWA (as respirable dust): 2 mg/m ³ | |
| Titanium dioxide | 13463-67-7 | UK HSC | TWA(respirable):4 mg/m ³ ;TWA(Inhalable):10 mg/m ³ | |
| Silicon dioxide | 67762-90-7 | 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

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

Derived no effect level (DNEL)

| Ingredient | Degradation Product | Population | Human exposure pattern | DNEL |
|--|---------------------|------------|--|------------------------|
| 2,4,6-tris(dimethylaminomethyl) phenol | | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 0.31 mg/m ³ |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 8.3 mg/kg bw/d |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Worker | Inhalation, Long-term exposure (8 hours), Local effects | 1 mg/m ³ |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 59 mg/m ³ |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Worker | Inhalation, Short-term exposure, Local effects | 13 mg/m ³ |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Worker | Inhalation, Short-term exposure, Systemic effects | 176 mg/m ³ |

Predicted no effect concentrations (PNEC)

| Ingredient | Degradation Product | Compartment | PNEC |
|------------|---------------------|-------------|------|
| | | | |

| | | | |
|--|--|--------------------------------|-------------------|
| 2,4,6-tris(dimethylaminomethyl)phenol | | Freshwater | 0.084 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | | Intermittent releases to water | 0.84 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | | Marine water | 0.0084 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | | Sewage Treatment Plant | 0.2 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Freshwater | 0.22 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Freshwater sediments | 0.809 mg/kg d.w. |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Intermittent releases to water | 2.2 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Marine water | 0.022 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Marine water sediments | 0.0809 mg/kg d.w. |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | | Sewage Treatment Plant | 125 mg/l |

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from UK HSC

8.2. Exposure controls

In addition, refer to the annex for more information.

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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Full face shield.

Indirect vented goggles.

Applicable Norms/Standards

Use eye/face protection conforming to EN 166

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

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|---|--|
| Physical state | Solid. |
| Specific Physical Form: | Paste |
| Colour | Off-White |
| Odor | Amine |
| 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 | ≥150 °C [<i>Test Method: Closed Cup</i>] |
| 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 | Negligible |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Vapour pressure | <i>Not applicable.</i> |

| | |
|------------------------|--------------------------------|
| Density | No data available. |
| Relative density | 1.27 - 1.35 [Ref Std: WATER=1] |
| Relative Vapor Density | Not applicable. |

9.2. Other information

9.2.2 Other safety characteristics

| | |
|-------------------------------|--------------------|
| EU Volatile Organic Compounds | No data available. |
| Evaporation rate | Not applicable. |
| Percent volatile | <=1 % |

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.

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

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the EU 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 internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

Skin contact

May be harmful in contact with skin. Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision. Vapours released during curing may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen. May cause additional health effects (see below).

Additional Health Effects:

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 ATE2,000 - 5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Kaolin | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Kaolin | Ingestion | Human | LD50 > 15,000 mg/kg |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | Dermal | Rabbit | LD50 2,500 mg/kg |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | Ingestion | Rat | LD50 3,160 mg/kg |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Ingestion | Rat | LD50 > 15,300 mg/kg |
| 2,4,6-tris(dimethylaminomethyl)phenol | Dermal | Rat | LD50 1,280 mg/kg |
| 2,4,6-tris(dimethylaminomethyl)phenol | Ingestion | Rat | LD50 1,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| 2-piperazin-1-ylethylamine | Dermal | Rabbit | LD50 865 mg/kg |
| 2-piperazin-1-ylethylamine | Ingestion | Rat | LD50 1,470 mg/kg |
| Titanium dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------|------------------------|---------------------------|
| Kaolin | Professional judgement | No significant irritation |

| | | |
|--|--------|---------------------------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | Rabbit | Corrosive |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Rabbit | Irritant |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit | Corrosive |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| 2-piperazin-1-ylethylamine | Rabbit | Corrosive |
| Titanium dioxide | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| Kaolin | Professional judgement | No significant irritation |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | similar health hazards | Corrosive |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Rabbit | Mild irritant |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit | Corrosive |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| 2-piperazin-1-ylethylamine | Rabbit | Corrosive |
| Titanium dioxide | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|------------------|----------------|
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Guinea pig | Sensitising |
| 2,4,6-tris(dimethylaminomethyl)phenol | Guinea pig | Not classified |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |
| 2-piperazin-1-ylethylamine | Guinea pig | Sensitising |
| Titanium dioxide | Human and animal | 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 |
|---|----------|--|
| 2,4,6-tris(dimethylaminomethyl)phenol | In Vitro | Not mutagenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| 2-piperazin-1-ylethylamine | In vivo | Not mutagenic |
| 2-piperazin-1-ylethylamine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide | In Vitro | Not mutagenic |
| Titanium dioxide | In vivo | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|----------------|-------------------------|--|
| Kaolin | Inhalation | Multiple animal species | Not carcinogenic |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not specified. | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Titanium dioxide | Ingestion | Multiple | Not carcinogenic |

| | | | |
|------------------|------------|----------------|---------------|
| | | animal species | |
| Titanium dioxide | Inhalation | Rat | Carcinogenic. |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|-----------|--|---------|-----------------------|--------------------------------|
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |
| 2-piperazin-1-ylethylamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 598 mg/kg/day | prematuring & during gestation |
| 2-piperazin-1-ylethylamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 409 mg/kg/day | 32 days |
| 2-piperazin-1-ylethylamine | Ingestion | Toxic to development | Rabbit | NOAEL 75 mg/kg/day | during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|------------|------------------------|--|------------------------|---------------------|-------------------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available | |
| 2,4,6-tris(dimethylaminomethyl)phenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 2-piperazin-1-ylethylamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|---|--|---------|-----------------------|-----------------------|
| Kaolin | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL NA | occupational exposure |
| Kaolin | Inhalation | pulmonary fibrosis | Not classified | Rat | NOAEL Not available | |
| 2,4,6-tris(dimethylaminomethyl)phenol | Dermal | skin liver nervous system auditory system hematopoietic system eyes | Not classified | Rat | NOAEL 125 mg/kg/day | 28 days |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 2-piperazin-1-ylethylamine | Dermal | skin | Not classified | Rat | NOAEL 100 mg/kg/day | 29 days |
| 2-piperazin-1-ylethylamine | Dermal | hematopoietic system nervous system kidney | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |

| | | | | | | |
|----------------------------|------------|--|--|-------|---------------------|-----------------------|
| | | and/or bladder | | | | |
| 2-piperazin-1-ylethylamine | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.2 mg/m3 | 13 weeks |
| 2-piperazin-1-ylethylamine | Inhalation | hematopoietic system eyes kidney and/or bladder | Not classified | Rat | NOAEL 53.8 mg/m3 | 13 weeks |
| 2-piperazin-1-ylethylamine | Ingestion | heart endocrine system hematopoietic system liver nervous system kidney and/or bladder | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| Titanium dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |

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 EU 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 |
|--|--------------|-----------------|---|-----------------|----------------------|--------------------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Bacteria | Experimental | 17 hours | EC50 | 4,000 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Golden Orfe | Experimental | 96 hours | LC50 | >1,000 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Green algae | Experimental | 72 hours | EC50 | >500 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Water flea | Experimental | 48 hours | EC50 | 218.16 mg/l |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Green algae | Experimental | 72 hours | EC10 | 5.4 mg/l |
| Kaolin | 1332-58-7 | Water flea | Experimental | 48 hours | LC50 | >1,100 mg/l |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1- | 68683-29-4 | | Data not available or insufficient for classification | | | N/A |

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| | | | | | | |
|--|------------|------------------|---|----------|------|--------------|
| methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | | | | | | |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | | Experimental | 96 hours | LC50 | 718 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Common Carp | Experimental | 96 hours | LC50 | >100 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Green algae | Experimental | 72 hours | EC50 | 46.7 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Green algae | Experimental | 72 hours | NOEC | 6.44 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | | Data not available or insufficient for classification | | | N/A |
| 2-piperazin-1-ylethylamine | 140-31-8 | Bacteria | Experimental | 17 hours | EC10 | 100 mg/l |
| 2-piperazin-1-ylethylamine | 140-31-8 | Golden Orfe | Experimental | 96 hours | LC50 | 368 mg/l |
| 2-piperazin-1-ylethylamine | 140-31-8 | Green Algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| 2-piperazin-1-ylethylamine | 140-31-8 | Water flea | Experimental | 48 hours | EC50 | 58 mg/l |
| 2-piperazin-1-ylethylamine | 140-31-8 | Green Algae | Experimental | 72 hours | NOEC | 31 mg/l |
| Titanium dioxide | 13463-67-7 | Activated sludge | Experimental | 3 hours | NOEC | >=1,000 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| Titanium dioxide | 13463-67-7 | Fathead minnow | Experimental | 96 hours | LC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | NOEC | 5,600 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|-----------------------------------|----------|-------------------------------|---|---|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Estimated Photolysis | | Photolytic half-life (in air) | 2.96 hours (t _{1/2}) | Non-standard method |
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Experimental Biodegradation | 25 days | CO ₂ evolution | -8 %CO ₂ evolution/THC O ₂ evolution | OECD 301B - Modified sturm or CO ₂ |
| Kaolin | 1332-58-7 | Data not available - insufficient | | | N/A | |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | 68683-29-4 | Data not available - insufficient | | | N/A | |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Experimental Biodegradation | 28 days | BOD | 4 % BOD/ThBOD | OECD 301D - Closed bottle test |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | Data not available - insufficient | | | N/A | |
| 2-piperazin-1-ylethylamine | 140-31-8 | Experimental | 28 days | BOD | 0 % | OECD 301C - MITI test (I) |

| | | | | | | |
|------------------|------------|------------------------------------|--|--|-----------|--|
| | | Biodegradation | | | BOD/ThBOD | |
| Titanium dioxide | 13463-67-7 | Data not available or insufficient | | | N/A | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|------------------------|-------------|---------------------------------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Experimental Bioconcentration | | Log Kow | -1.25 | Non-standard method |
| Kaolin | 1332-58-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated | 68683-29-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | Experimental Bioconcentration | | Log Kow | -0.66 | 830.7550 Part.Coeff Shake Flask |
| Siloxanes and Silicones, di-Me, reaction products with silica | 67762-90-7 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2-piperazin-1-ylethylamine | 140-31-8 | Experimental Bioconcentration | | Log Kow | 0.3 | Non-standard method |
| Titanium dioxide | 13463-67-7 | Experimental BCF-Carp | 42 days | Bioaccumulation factor | 9.6 | Non-standard method |

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|--|-----------|--------------------------|------------|--|----------------------|
| 3,3'-Oxybis(ethyleneoxy)bis(propylamine) | 4246-51-9 | Modeled Mobility in Soil | Koc | ERROR: Length cannot be greater than the length of the string. | ACD/Labs ChemSketch™ |

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. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

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. If no other disposal options are available, waste product that has been completely cured or polymerised may be placed in a landfill properly designed for industrial waste. 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
20 01 27* Paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transportation information

ADR: UN3259 Amines, Solid, Corrosive, N.O.S. (3,3'-Oxybis(Ethyleneoxy)Bis(Propylamine)); 8; II; (E); C8
IMDG: UN3259 Amines, Solid, Corrosive, N.O.S. (3,3'-Oxybis(Ethyleneoxy)Bis(Propylamine)); 8; II; EmS: F-A, S-B
IATA: UN3259 Amines, Solid, Corrosive, N.O.S. (3,3'-Oxybis(Ethyleneoxy)Bis(Propylamine)); 8; II

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> |
|-------------------|----------------|-------------------------------|---|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

Global inventory status

Contact 3M for more information.

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

| | |
|-------|---|
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H351i | Suspected of causing cancer by inhalation. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

H412 Harmful to aquatic life with long lasting effects.

Revision information:

EU Section 09: pH information information was added.
Formulation: Section 16: Annex information was modified.
Industrial Transfer: Section 16: Annex information was modified.
Industrial Use of Adhesives: Section 16: Annex information was modified.
Professional Mixing and Application: Section 16: Annex information was modified.
CLP: Ingredient table information was modified.
Label: CLP Classification information was modified.
Label: CLP Precautionary - Response information was modified.
Section 03: Composition table % Column heading information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 03: Substance not applicable information was added.
Section 04: First Aid - Symptoms and Effects (CLP) information was added.
Section 04: Information on toxicological effects information was modified.
Section 7: Precautions safe handling information information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 09: Kinematic Viscosity information information was added.
Section 9: Melting point information information was modified.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive Hazards information information was deleted.
Section 11: Reproductive/developmental effects information information was added.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: Mobility in soil information information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.

Section 14 Hazard Class + Sub Risk – Main Heading information was added.
 Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
 Section 14 Hazardous/Not Hazardous for Transportation information was added.
 Section 14 Multiplier – Main Heading information was added.
 Section 14 Multiplier – Regulation Data information was added.
 Section 14 Other Dangerous Goods – Main Heading information was added.
 Section 14 Other Dangerous Goods – Regulation Data information was added.
 Section 14 Packing Group – Main Heading information was added.
 Section 14 Packing Group – Regulation Data information was added.
 Section 14 Proper Shipping Name information was added.
 Section 14 Regulations – Main Headings information was added.
 Section 14 Segregation – Regulation Data information was added.
 Section 14 Segregation Code – Main Heading information was added.
 Section 14 Special Precautions – Main Heading information was added.
 Section 14 Special Precautions – Regulation Data information was added.
 Section 14 Transport Category – Main Heading information was added.
 Section 14 Transport Category – Regulation Data information was added.
 Section 14 Transport in bulk – Regulation Data information was added.
 Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.
 Section 14 Tunnel Code – Main Heading information was added.
 Section 14 Tunnel Code – Regulation Data information was added.
 Section 14 UN Number Column data information was added.
 Section 14 UN Number information was added.
 Section 15: Carcinogenicity information information was added.
 Section 15: Regulations - Inventories 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 modified.

Annex

| 1. Title | |
|--|--|
| Substance identification | 2,4,6-tris(dimethylaminomethyl)phenol; EC No. 202-013-9; CAS Nbr 90-72-2; |
| Exposure Scenario Name | Formulation |
| Lifecycle Stage | Formulation or re-packing |
| Contributing activities | PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 09 -Transfer of substance or mixture into small containers (dedicated filling line, including weighing) ERC 02 -Formulation into mixture |
| Processes, tasks and activities covered | Transfer of substances/mixtures into small containers e.g. tubes , bottles or small reservoirs. Transfers with dedicated controls, including loading, filling, dumping, bagging. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Air exchange rate:: >= 3 times per hour; Indoor use; Partially open and partially closed process; Processing Temperature:: <= 40 degree Celsius; Task: PROC08b; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Task: PROC09; |

| | |
|----------------------------------|--|
| | Duration of exposure per day at workplace [for one worker]: ≤ 4 hour(s); |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Local exhaust ventilation; Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed; |
| Waste management measures | No use-specific waste management measures are required for this product. Refer to Section 13 of main SDS for disposal instructions: |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|--|
| 1. Title | |
| Substance identification | 3,3'-Oxybis(ethyleneoxy)bis(propylamine); EC No. 224-207-2; CAS Nbr 4246-51-9; |
| Exposure Scenario Name | Industrial Transfer |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 08b -Transfer of substance or mixture (charging and discharging) at dedicated facilities ERC 02 -Formulation into mixture |
| Processes, tasks and activities covered | Transfer of substance/mixture with dedicated engineering controls. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Frequency of exposure at workplace [for one worker]: 5 days/week; Processing Temperature:: 20 degree Celsius; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed; |
| Waste management measures | Do not release to waterways or sewers; Incinerate in a permitted hazardous waste incinerator; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---------------------------------|--|
| 1. Title | |
| Substance identification | 3,3'-Oxybis(ethyleneoxy)bis(propylamine); EC No. 224-207-2; CAS Nbr 4246-51-9; |
| Exposure Scenario Name | Industrial Use of Adhesives |
| Lifecycle Stage | Use at industrial sites |

| | |
|---|--|
| Contributing activities | PROC 13 -Treatment of articles by dipping and pouring ERC 06d -Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) |
| Processes, tasks and activities covered | Application of product through a mixing nozzle |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Duration of use: 8 hours/day; Frequency of exposure at workplace [for one worker]: 5 days/week; Processing Temperature:: 20 degree Celsius; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed; |
| Waste management measures | Do not release to waterways or sewers; Incinerate in a permitted hazardous waste incinerator; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|--|
| 1. Title | |
| Substance identification | 2,4,6-tris(dimethylaminomethyl)phenol; EC No. 202-013-9; CAS Nbr 90-72-2; |
| Exposure Scenario Name | Industrial Use of Adhesives |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 05 -Mixing or blending in batch processes PROC 08a -Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 10 -Roller application or brushing PROC 13 -Treatment of articles by dipping and pouring ERC 05 -Use at industrial site leading to inclusion into/onto article |
| Processes, tasks and activities covered | Application of product with a roller or brush. Application of product with applicator gun. Mixing operations (open systems). Transfers without dedicated controls, including loading, filling, dumping, bagging. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Air exchange rate:: >= 3 times per hour; Duration of exposure per day at workplace [for one worker]: <= 4 hour(s); Indoor use; Processing Temperature:: <= 40 degree Celsius; Task: PROC05; Duration of exposure per day at workplace [for one worker]: 8 hours/day; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Local exhaust ventilation; Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for |

| | |
|----------------------------------|--|
| | specific glove material.; Environmental: None needed; |
| Waste management measures | Do not release to waterways or sewers; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

| | |
|---|--|
| 1. Title | |
| Substance identification | 2,4,6-tris(dimethylaminomethyl)phenol; EC No. 202-013-9; CAS Nbr 90-72-2; |
| Exposure Scenario Name | Hand-mixing of preparations, e.g. plasters, resins, two-component adhesives. |
| Lifecycle Stage | Widespread use by professional workers |
| Contributing activities | PROC 10 -Roller application or brushing ERC 08c -Widespread use leading to inclusion into/onto article (indoor) |
| Processes, tasks and activities covered | Application of product. |
| 2. Operational conditions and risk management measures | |
| Operating Conditions | Physical state: Liquid. General operating conditions: Duration of exposure per day at workplace [for one worker]: 8 hours/day; Indoor use; Processing Temperature:: <= 40 degree Celsius; |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Local exhaust ventilation; Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for specific glove material.; Environmental: None needed; |
| Waste management measures | Do not release directly to waterways; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and PNECs when the identified risk management measures are adopted. |

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.

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