

Safety Data Sheet

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 Document group:
 38-9785-7
 Version number:
 2.01

 Revision date:
 02/12/2024
 Supersedes date:
 28/04/2021

Transportation version number:

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

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

1.1. Product identifier

3M(tm) Scotch-Weld(tm) Structural Void Filling Compound EC-3524 B/A Black

Product Identification Numbers

UU-0082-9904-0 UU-0083-4104-0

7100176236 7100172704

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

Identified uses

Industrial use.

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.

Telephone: +353 1 280 3555 E Mail: tox.uk@mmm.com

Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

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:

09-2425-8, 38-9433-4

TRANSPORTATION INFORMATION

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

KIT LABEL

2.1. Classification of the substance or mixture CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

Skin Corrosion/ Irritation, Category 1C - Skin Corr. 1C; H314
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Carcinogenicity, Category 2 - Carc. 2; H351
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

Hazardous to the Aquatic Environment (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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |





Contains:

antimony trioxide; bis-[4-(2,3-epoxipropoxi)phenyl]propane; 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1-chloro-2,3-epoxypropane; Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine ; triphenyl phosphite; 2,4,6-tris(dimethylaminomethyl)phenol.

HAZARD STATEMENTS:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260B Do not breathe dust.

P273 Avoid release to the environment.

P280D Wear protective gloves, protective clothing, and eye/face protection.

Response:

3M(tm) Scotch-Weld(tm) Structural Void Filling Compound EC-3524 B/A Black

| 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:

Label: CLP Ingredients - kit components information was modified.

Label: CLP Classification information was modified.

Label: CLP Precautionary - Prevention information was modified.



Safety Data Sheet

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Document group: 38-9433-4 **Version number:** 2.03

Revision date: 19/04/2023 **Supersedes date:** 02/02/2023

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(tm) Scotch-Weld(tm) Structural Void Filling Compound EC-3524 B/A Black: Part A

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

Identified uses

Industrial use.

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.

Telephone: +353 1 280 3555 E Mail: tox.uk@mmm.com Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

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 1C - Skin Corr. 1C; H314
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336
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

CLP REGULATION (EC) No 1272/2008

SIGNAL WORD

DANGER.

Symbols

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

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|--|----------|-----------|---------|
| Reaction products of fatty acids, C18-unsaturate dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | | 701-270-9 | 40 - 60 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | 202-013-9 | 3 - 7 |
| triphenyl phosphite | 101-02-0 | 202-908-4 | 1 - 2 |

HAZARD STATEMENTS:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P260B Do not breathe dust.

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.

2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. Contains a substance that meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII

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] |
|--|--|---------|---|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | (EC-No.) 701-270-9 | 40 - 60 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H336 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 |
| Oxide glass chemicals | (CAS-No.) 65997-17-3 (EC-No.) 266-046-0 | 10 - 30 | Substance with a national occupational exposure limit |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,1 3.05,10]octadeca-7,15-diene | (CAS-No.) 13560-89-9 (EC-No.) 236-948-9 (REACH-No.) 01- 2119978271-33 | 7 - 14 | Substance not classified as hazardous |
| 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 |
| triphenyl phosphite | (CAS-No.) 101-02-0 (EC-No.) 202-908-4 (REACH-No.) 01- 2119511213-58 | 1 - 2 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Acute Tox. 4, H302 Skin Sens. 1A, H317 STOT RE 2, H373 |

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

Specific Concentration Limits

| Ingredient | Identifier(s) | Specific Concentration Limits |
|------------|---------------|---|
| | ` / | (C >= 5%) Skin Irrit. 2, H315 (C >= 5%) Eye Irrit. 2, H319 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate

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medical attention. Wash clothing before reuse.

Eve 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). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideDuring combustion.Carbon dioxide.During combustion.Hydrogen ChlorideDuring combustion.Irritant vapours or gases.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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store away from heat. Store away from 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 Mineral wool, with the exception of those specified elsewhere in | CAS Nbr 65997-17-3 | Agency Ireland OELs | Limit type TWA(8 hours):5 mg/m3(2 fiber/cc) | Additional comments |
|---|---------------------------|-------------------------------|--|---------------------|
| this Annex Oxide glass chemicals | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3 | |

Ireland OELs: Ireland. OELs 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 Indust. Inspect./Ministry (IE)

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.

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:

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 No data available. Melting point/freezing point No data available. $>=200 \, {}^{\circ}\text{C}$ Boiling point/boiling range Flammability (solid, gas) Not classified Flammable Limits(LEL) *Not applicable.* Flammable Limits(UEL) Not applicable. >=148 °C Flash point

Autoignition temperature No data available.

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Decomposition temperatureNo data available.

pH substance/mixture is non-soluble (in water)

Kinematic Viscosity
No data available.
Water solubility
No data available.
Solubility- non-water
No data available.
Partition coefficient: n-octanol/water
No data available.
Vapour pressure
Not applicable.
Density
No data available.

Relative density 0.4

Relative Vapour Density *Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic CompoundsNo data available.Evaporation rateNot applicable.Percent volatileNo data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the 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. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

Skin contact

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. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

May be harmful if swallowed.

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:

Single exposure may cause target organ effects:

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

Prolonged or repeated exposure may cause target organ effects:

Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Additional information:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|---------------------------------------|---------|---|
| Overall product | Dermal | | No data available; calculated ATE >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | Dermal | Rat | LD50 > 2,000 mg/kg |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | Ingestion | Rat | LD50 > 2,000 mg/kg |
| Oxide glass chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Oxide glass chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15- diene | Dermal | Rabbit | LD50 > 8,000 mg/kg |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15- diene | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 2.25 mg/l |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15- | Ingestion | Rat | LD50 > 25,000 mg/kg |

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| diene | | | |
|---------------------------------------|-------------|--------|--------------------|
| 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 |
| triphenyl phosphite | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| triphenyl phosphite | Inhalation- | Rat | LC50 > 1.7 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| triphenyl phosphite | Ingestion | Rat | LD50 1,590 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|-----------------------------------|---------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | Rat | Irritant |
| Oxide glass chemicals | Professio nal judgemen t | No significant irritation |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene | Rabbit | No significant irritation |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit | Corrosive |
| triphenyl phosphite | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-----------------------------------|---------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | In vitro data | Severe irritant |
| Oxide glass chemicals | Professio nal judgemen t | No significant irritation |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene | Rabbit | No significant irritation |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit | Corrosive |
| triphenyl phosphite | Rabbit | Moderate irritant |

Skin Sensitisation

| Name | Species | Value |
|--|---------|----------------|
| | | |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'- | Guinea | Sensitising |
| [oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | pig | |
| 1,6,7,8,9,14,15,16,17,17,18,18- | Guinea | Not classified |
| Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene | pig | |
| 2,4,6-tris(dimethylaminomethyl)phenol | Guinea | Not classified |
| | pig | |
| triphenyl phosphite | Mouse | Sensitising |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Germ Cen Mutagementy | | |
|---|----------|--|
| Name | Route | Value |
| | | |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | In Vitro | Not mutagenic |
| Oxide glass chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene | In Vitro | Not mutagenic |
| 2,4,6-tris(dimethylaminomethyl)phenol | In Vitro | Not mutagenic |

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Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|------------|-------------------------------|--|
| Oxide glass chemicals | Inhalation | 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 |
|--|-----------|--|---------|-----------------------------|--------------------------|
| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1- amine | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1- amine | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1- amine | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13. 05,10]octadeca-7,15-diene | Ingestion | Not classified for female reproduction | Rat | NOAEL 5,000 mg/kg/day | premating into lactation |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13. 05,10]octadeca-7,15-diene | Ingestion | Not classified for male reproduction | Rat | NOAEL 5,000 mg/kg/day | 63 days |
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13. 05,10]octadeca-7,15-diene | Ingestion | Not classified for development | Rat | NOAEL 5,000 mg/kg/day | premating into lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|--------------------------------------|--|------------------------------|------------------------|----------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1- diyloxy)]dipropan-1-amine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | Irritation Positive | |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1- diyloxy)]dipropan-1-amine | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | 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 | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|-----------|---|----------------|---------|-----------------------------|----------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1- diyloxy)]dipropan-1-amine | Ingestion | heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |

| Oxide glass chemicals | Inhalation | system eyes kidney and/or bladder respiratory system vascular system respiratory system | Not classified | Human | NOAEL not | occupational |
|---|-------------|---|--|--------|-----------------------------|--------------|
| Oxide glass chemicals | Illiaiation | respiratory system | Not classified | пишан | available | exposure |
| 1,6,7,8,9,14,15,16,17,17,1 8,18- Dodecachloropentacyclo[1 2.2.1.16,9.02,13.05,10]oct adeca-7,15-diene | Dermal | heart skin endocrine system hematopoietic system liver nervous system kidney and/or bladder | Not classified | Rabbit | NOAEL 2,000 mg/kg/day | 28 days |
| 1,6,7,8,9,14,15,16,17,17,1 8,18- Dodecachloropentacyclo[1 2.2.1.16,9.02,13.05,10]oct adeca-7,15-diene | Inhalation | liver respiratory system hematopoietic system kidney and/or bladder | Not classified | Rat | NOAEL 1.524 mg/l | 28 days |
| 1,6,7,8,9,14,15,16,17,17,1 8,18- Dodecachloropentacyclo[1 2.2.1.16,9.02,13.05,10]oct adeca-7,15-diene | Ingestion | liver heart hematopoietic system nervous system kidney and/or bladder | Not classified | Rat | NOAEL 5,870 mg/kg/day | 90 days |
| 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 |
| triphenyl phosphite | Ingestion | nervous system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 15 mg/kg/day | 28 days |

Aspiration Hazard

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

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

11.2. Information on other hazards

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

SECTION 12: Ecological information

The information below may not agree with the 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 |
|-------------------------|-----------|----------------|--------------|----------|---------------|-------------|
| Reaction products of | 701-270-9 | Fathead minnow | Experimental | 96 hours | LL50 | 2.16 mg/l |
| fatty acids, C18- | | | | | | |
| unsaturated, dimers and | | | | | | |
| trimers with 3,3'- | | | | | | |
| [oxybis(ethane-2,1- | | | | | | |
| diyloxy)]dipropan-1- | | | | | | |
| amine | | | | | | |

| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1- diyloxy)]dipropan-1- | 701-270-9 | Green algae | Experimental | 72 hours | EL50 | 0.43 mg/l |
|--|------------|------------------|----------------------|----------|-----------------------------------|--------------|
| amine Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1- diyloxy)]dipropan-1- amine | 701-270-9 | Water flea | Experimental | 48 hours | EL50 | 0.57 mg/l |
| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1-diyloxy)]dipropan-1-amine | 701-270-9 | Green algae | Experimental | 72 hours | NOEL | 0.28 mg/l |
| Reaction products of fatty acids, C18- unsaturated, dimers and trimers with 3,3'- [oxybis(ethane-2,1- diyloxy)]dipropan-1- amine | 701-270-9 | Activated sludge | Experimental | 3 hours | EC50 | 410.3 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| 1,6,7,8,9,14,15,16,17,1 7,18,18- Dodecachloropentacycl o[12.2.1.16,9.02,13.05, 10]octadeca-7,15-diene | 13560-89-9 | Green algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| 1,6,7,8,9,14,15,16,17,1 7,18,18- Dodecachloropentacycl o[12.2.1.16,9.02,13.05, 10]octadeca-7,15-diene | 13560-89-9 | Water flea | Endpoint not reached | 48 hours | EC50 | >100 mg/l |
| 7,18,18- Dodecachloropentacycl o[12.2.1.16,9.02,13.05, 10]octadeca-7,15-diene | 13560-89-9 | Bluegill | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 1,6,7,8,9,14,15,16,17,1 7,18,18- Dodecachloropentacycl o[12.2.1.16,9.02,13.05, 10]octadeca-7,15-diene | 13560-89-9 | Green algae | Experimental | 72 hours | No tox obs at lmt of water sol | >100 mg/l |
| 1,6,7,8,9,14,15,16,17,1 7,18,18- Dodecachloropentacycl o[12.2.1.16,9.02,13.05, 10]octadeca-7,15-diene | 13560-89-9 | Water flea | Experimental | 21 days | No tox obs at lmt of water sol | >100 mg/l |
| 2,4,6- tris(dimethylaminometh | 90-72-2 | N/A | Experimental | 96 hours | LC50 | 718 mg/l |
| yl)phenol 2,4,6- tris(dimethylaminometh yl)phenol | 90-72-2 | Common Carp | Experimental | 96 hours | LC50 | >100 mg/l |
| 2,4,6- tris(dimethylaminometh | 90-72-2 | Green algae | Experimental | 72 hours | EC50 | 46.7 mg/l |

| yl)phenol | | | | | | |
|---|----------|-------------|--------------|----------|------|-----------|
| 2,4,6- tris(dimethylaminometh yl)phenol | 90-72-2 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| 2,4,6- tris(dimethylaminometh yl)phenol | 90-72-2 | Green algae | Experimental | 72 hours | NOEC | 6.44 mg/l |
| triphenyl phosphite | 101-02-0 | Green algae | Experimental | 72 hours | EC50 | >16 mg/l |
| triphenyl phosphite | 101-02-0 | Medaka | Experimental | 96 hours | LC50 | >4.3 mg/l |
| triphenyl phosphite | 101-02-0 | Water flea | Experimental | 48 hours | EC50 | 0.45 mg/l |
| triphenyl phosphite | 101-02-0 | Green algae | Experimental | 72 hours | NOEC | 16 mg/l |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|-------------------------------------|------------|-----------------------------------|----------|----------------------|-------------------|---------------------------|
| Reaction products of fatty | 701-270-9 | Experimental | 28 days | BOD | 0 %BOD/ThO | OECD 301F - Manometric |
| acids, C18-unsaturated, | | Biodegradation | | | D | respirometry |
| dimers and trimers with | | | | | | |
| 3,3'-[oxybis(ethane-2,1- | | | | | | |
| diyloxy)]dipropan-1-amine | | | | | | |
| Oxide glass chemicals | 65997-17-3 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| 1,6,7,8,9,14,15,16,17,17,18, 18- | 13560-89-9 | Experimental Biodegradation | 14 days | BOD | 0.6 %BOD/Th OD | OECD 301C - MITI test (I) |
| Dodecachloropentacyclo[12 | | | | | | |
| .2.1.16,9.02,13.05,10]octade | | | | | | |
| ca-7,15-diene | | | | | | |
| 2,4,6- | 90-72-2 | Experimental | 28 days | BOD | 4 %BOD/ThO | OECD 301D - Closed bottle |
| tris(dimethylaminomethyl)p | | Biodegradation | | | D | test |
| henol | | | | | | |
| triphenyl phosphite | 101-02-0 | Estimated | 14 days | BOD | 85 %BOD/ThO | OECD 301C - MITI test (I) |
| | | Biodegradation | | | D | |
| triphenyl phosphite | 101-02-0 | Experimental | | Hydrolytic half-life | 0.5 hours (t | |
| | | Hydrolysis | | | 1/2) | |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|---|------------|---|----------|------------------------|-------------|-----------------------------------|
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1- diyloxy)]dipropan-1-amine | 701-270-9 | Modeled Bioconcentration | | Bioaccumulation factor | 42 | Catalogic™ |
| Reaction products of fatty acids, C18-unsaturated, dimers and trimers with 3,3'-[oxybis(ethane-2,1- diyloxy)]dipropan-1-amine | 701-270-9 | Modeled Bioconcentration | | Log Kow | 11.7 | Episuite TM |
| Oxide glass chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 1,6,7,8,9,14,15,16,17,17,18 ,18- Dodecachloropentacyclo[1 2.2.1.16,9.02,13.05,10]octa deca-7,15-diene | 13560-89-9 | 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.Coef Shake Flask |
| triphenyl phosphite | 101-02-0 | Estimated Bioconcentration | | Bioaccumulation factor | 13800 | |

Page: 13 of 17

12.4. Mobility in soil

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|-----------------------------|------------|------------------|------------|-----------------|------------------------|
| Reaction products of fatty | 701-270-9 | Modeled Mobility | Koc | 3,780,000,000 | |
| acids, C18-unsaturated, | | in Soil | | l/kg | |
| dimers and trimers with | | | | | |
| 3,3'-[oxybis(ethane-2,1- | | | | | |
| diyloxy)]dipropan-1-amine | | | | | |
| 1,6,7,8,9,14,15,16,17,17,18 | 13560-89-9 | Modeled Mobility | Koc | 48,000,000 l/kg | Episuite TM |
| ,18- | | in Soil | | | |
| Dodecachloropentacyclo[1 | | | | | |
| 2.2.1.16,9.02,13.05,10]octa | | | | | |
| deca-7,15-diene | | | | | |

12.5. Results of the PBT and vPvB assessment

| Ingredient | CAS Nbr | PBT/vPvB status |
|---|------------|--------------------------|
| 1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12,2,1,16,9,02,13,0 | 13560-89-9 | Meets REACH PBT criteria |
| 5,10]octadeca-7,15-diene | | |

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 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. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 04 09* Waste adhesives and sealants containing organic solvents or other dangerous substances

| SECTION 14: Transportation information | | | | | | | |
|--|-----------------|-----------|----------------------|------------------|-----------|--|--|
| | Ground (ADR) | Transport | Air Transport (IATA) | Marine (IMDG) | Transport | | |

| 14.1 UN number or ID number | UN3259 | UN3259 | UN3259 |
|--|---|--------------------|---|
| 14.2 UN proper shipping name | AMINES, SOLID, CORROSIVE, N.O.S.(TRIS(2,4,6- DIMETHYLAMINOMONO METHYL)PHENOL) | ETHYL)PHENOL) | AMINES, SOLID, CORROSIVE, N.O.S.(TRIS(2,4,6- DIMETHYLAMINOMONO METHYL)PHENOL; FATTY ACIDS, C18- UNSATD, DIMERS, POLYMERS WITH 3,3- (OXYBIS(2,1- ETHANEDIYLOXY))BIS(1- PROPANAMINE)) |
| 14.3 Transport hazard class(es) | 8 | 8 | 8 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |
| ADR Classification Code | C8 | Not applicable. | Not applicable. |
| IMDG Segregation Code | Not applicable. | Not applicable. | 18 - ALKALIS |

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

Authorization status under REACH:

The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

<u>Ingredient</u> <u>CAS Nbr</u>

1,6,7,8,9,14,15,16,17,17,18,18-

13560-89-9

Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]oc

tadeca-7,15-diene

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

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | | |
|-----------------------------|---|-----|--|
| | Lower-tier requirements Upper-tier requirements | | |
| E1 Hazardous to the Aquatic | 100 | 200 | |
| environment | | | |

Seveso named dangerous substances, Annex 1, Part 2

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|----------------------|---------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| triphenyl phosphite | 101-02-0 | 100 | 200 |

Regulation (EU) No 649/2012

No chemicals listed

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. |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Revision information:

Section 14 Classification Code – Regulation Data information was modified.

Section 14 Hazard Class + Sub Risk – Regulation Data information was modified.

Section 14 Hazardous/Not Hazardous for Transportation information was modified.

Section 14 Other Dangerous Goods – Regulation Data information was modified.

Section 14 Packing Group - Regulation Data information was modified.

Section 14 Proper Shipping Name information was modified.

Section 14 Segregation – Regulation Data information was modified.

Section 14 UN Number Column data information was modified. Section 14: Transportation classification information was deleted.

Annex

| 1. Title | | | |
|---|--|--|--|
| Substance identification | | | |
| Exposure Scenario Name | Formulation | | |
| Lifecycle Stage | Formulation or re-packing | | |
| Contributing activities | 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 | Batch manufacture of a chemical substance or formulation (including polymerisation reactions). | | |
| 2. Operational conditions and risk mana | ngement measures | | |
| Operating Conditions | Physical state:Liquid. General operating conditions: Duration of use: 8 hours/day; Emission days per year: <= 225 days per year; | | |
| Risk management measures | Under the operational conditions described above the following risk management measures apply: General risk management measures: Human health: Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for specific glove material.; Environmental: Waste Water treatment - Incineration; | | |
| Waste management measures | Do not apply industrial sludge to natural soils; Prevent leaks and prevent soil / water pollution caused by leaks; | | |
| 3. Prediction of exposure | 1 | | |
| 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.

3M Ireland MSDSs are available at www.3M.com



Safety Data Sheet

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 Document group:
 09-2425-8
 Version number:
 19.01

 Revision date:
 04/09/2023
 Supersedes date:
 20/02/2023

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[™] Structural Void Filling Compound EC-3524 B/A Black: Part B

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

Identified uses

Void Filling Compound

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.

Telephone: +353 1 280 3555 E Mail: tox.uk@mmm.com Website: www.3M.com

1.4. Emergency telephone number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

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 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Carcinogenicity, Category 2 - Carc. 2; H351
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) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Ingredients:

| Ingredient | CAS Nbr | EC No. | % by Wt |
|---|------------|-----------|---------|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3 | 216-823-5 | 40 - 70 |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 31452-80-9 | 500-073-3 | 10 - 30 |
| antimony trioxide | 1309-64-4 | 215-175-0 | 3 - 7 |

HAZARD STATEMENTS:

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P273 Avoid release to the environment.

P280K Wear protective gloves and respiratory protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

Contains 21% of components with unknown hazards to the aquatic environment.

2.3. Other hazards

None known.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Ingredient | Identifier(s) | % | Classification according to Regulation |
|---|----------------------|---------|--|
| | | | (EC) No. 1272/2008 [CLP] |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | (CAS-No.) 1675-54-3 | 40 - 70 | Skin Irrit. 2, H315 |
| | (EC-No.) 216-823-5 | | Eye Irrit. 2, H319 |
| | (REACH-No.) 01- | | Skin Sens. 1, H317 |
| | 2119456619-26 | | Aquatic Chronic 2, H411 |
| 2,2-Bis(bromomethyl)propane-1,3-diol, | (CAS-No.) 31452-80-9 | 10 - 30 | Skin Sens. 1, H317 |
| oligomeric reaction products with 1- | (EC-No.) 500-073-3 | | · |
| chloro-2,3-epoxypropane | | | |
| Oxide glass chemicals | (CAS-No.) 65997-17-3 | 10 - 30 | Substance with a national occupational |
| | (EC-No.) 266-046-0 | | exposure limit |
| antimony trioxide | (CAS-No.) 1309-64-4 | 3 - 7 | Carc. 2, H351 |
| | (EC-No.) 215-175-0 | | STOT RE 2, H373 |
| | (REACH-No.) 01- | | Aquatic Chronic 2, H411 |
| | 2119475613-35 | | , |
| Carbon black | (CAS-No.) 1333-86-4 | <= 2 | Substance with a national occupational |
| | (EC-No.) 215-609-9 | | exposure limit |
| | (REACH-No.) 01- | | |
| | 2119384822-32 | | |

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

Specific Concentration Limits

| Ingredient | Identifier(s) | Specific Concentration Limits |
|------------|---------------|---|
| | | (C >= 5%) Skin Irrit. 2, H315 (C >= 5%) Eye Irrit. 2, H319 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

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

Skin contact

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

Eye contact

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

If swallowed

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

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

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

Irritation to the skin (localized redness, swelling, itching, and dryness). Allergic skin reaction (redness, swelling, blistering, and itching). Serious irritation to the eyes (significant redness, swelling, pain, tearing, and impaired vision).

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a dry chemical extinguisher 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 Bromide

Oxides of antimony.

Condition

During combustion. During combustion. During combustion.

During combustion.

5.3. Advice for fire-fighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. 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

For industrial/occupational use only. Not for consumer sale or use. 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. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store 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 |
|----------------------------------|------------|--------------|---------------------------------|---------------------|
| ANTIMONY COMPOUNDS | 1309-64-4 | Ireland OELs | TWA(8 hours):0.5 mg/m3 | as Sb |
| Carbon black | 1333-86-4 | Ireland OELs | TWA(inhalable fraction)(8 | |
| | | | hours):3 mg/m3 | |
| Mineral wool, with the exception | 65997-17-3 | Ireland OELs | TWA(8 hours):5 mg/m3(2 | |
| of those specified elsewhere in | | | fiber/cc) | |
| this Annex | | | , | |
| Oxide glass chemicals | 65997-17-3 | Manufacturer | TWA(as non-fibrous, | |
| • | | determined | respirable)(8 hours):3 | |
| | | | mg/m3;TWA(as non-fibrous, | |
| | | | inhalable fraction)(8 hours):10 | |
| | | | mg/m3 | |
| | | | mg/m3 | |

Ireland OELs : Ireland. OELs 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 | DNEL |
|---|------------------------|------------|--|----------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | | Worker | Dermal, Long-term exposure (8 hours), Systemic effects | 8.3 mg/kg bw/d |
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | | Worker | Dermal, Short-term exposure, Systemic effects | 8.3 mg/kg bw/d |
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | | Worker | Inhalation, Long-term exposure (8 hours), Systemic effects | 12.3 mg/m³ |
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | | Worker | Inhalation, Short-term exposure, Systemic effects | 12.3 mg/m³ |

Predicted no effect concentrations (PNEC)

| Predicted no effect concentrations (PNEC) | | | | |
|---|------------------------|-------------|------------|--|
| Ingredient | Degradation Product | Compartment | PNEC | |
| bis-[4-(2,3- epoxipropoxi)phenyl]propa | | Freshwater | 0.003 mg/l | |

| bis-[4-(2,3- epoxipropoxi)phenyl]propa | Freshwater sediments | 0.5 mg/kg d.w. |
|---|--------------------------------|----------------|
| ne bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | Intermittent releases to water | 0.013 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | Marine water | 0.0003 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | Marine water sediments | 0.5 mg/kg d.w. |
| bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | Sewage Treatment Plant | 10 mg/l |

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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.

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:

MaterialThickness (mm)Breakthrough TimePolymer laminateNo data availableNo 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 Black Slight Epoxy Odor Odour threshold No data available. Melting point/freezing point Not applicable. Boiling point/boiling range >=121.1 °C Flammability (solid, gas) Not classified Flammable Limits(LEL) No data available.

Flammable Limits(UEL) No data available.

Flash point >=121.1 °C [@ 101,325 Pa] [Test Method: Closed Cup]
Autoignition temperature No data available.

Decomposition temperatureNo data available.

No data available.

pH substance/mixture is non-soluble (in water)

Kinematic Viscosity *No data available.*

Water solubility Nil

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Vapour pressureNo data available.

Density 0.52 g/ml

Relative density 0.515 - 0.54 [*Ref Std*:WATER=1]

Relative Vapour DensityNo data available.

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds No data available. Evaporation rate No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

3M™ Scotch-Weld™ Structural Void Filling Compound EC-3524 B/A Black : Part B

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Amines.

Strong acids.

Strong oxidising agents.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not agree with the 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. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. May cause additional health effects (see below).

Skin contact

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eve contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion

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

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Fibrosis: Signs/symptoms may include breathlessness, chronic dry cough, phlegm production, wheezing, and changes in lung

function tests. Dermal effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|---|---------------------------------------|---------|--|
| Overall product | Ingestion | Species | No data available; calculated ATE >5,000 mg/kg |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Dermal | Rat | LD50 > 1,600 mg/kg |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Ingestion | Rat | LD50 > 1,000 mg/kg |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Oxide glass chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Oxide glass chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| antimony trioxide | Dermal | Rabbit | LD50 > 6,685 mg/kg |
| antimony trioxide | Inhalation- Dust/Mist (4 hours) | Rat | LC50 > 2.76 mg/l |
| antimony trioxide | Ingestion | Rat | LD50 > 34,600 mg/kg |
| Carbon black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon black | Ingestion | Rat | LD50 > 8,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| SKIII COTTOSIOII/ITTICACIOII | T | |
|--|-----------|---------------------------|
| Name | Species | Value |
| | | |
| | | |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Rabbit | Mild irritant |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1- | Professio | Mild irritant |
| chloro-2,3-epoxypropane | nal | |
| | judgemen | |
| | t | |
| Oxide glass chemicals | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |
| antimony trioxide | Human | Minimal irritation |
| | and | |
| | animal | |
| Carbon black | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|-----------|---------------------------|
| | | |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Rabbit | Moderate irritant |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1- | Professio | Moderate irritant |
| chloro-2,3-epoxypropane | nal | |
| | judgemen | |
| | t | |
| Oxide glass chemicals | Professio | No significant irritation |
| | nal | |
| | judgemen | |
| | t | |
| antimony trioxide | Rabbit | Mild irritant |
| Carbon black | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|---------|----------------|
| | | |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Human | Sensitising |
| | and | |
| | animal | |
| 2,2-Bis(bromomethyl)propane-1,3-diol, oligomeric reaction products with 1- | similar | Sensitising |
| chloro-2,3-epoxypropane | compoun | |
| | ds | |
| antimony trioxide | Human | Not classified |

Respiratory Sensitisation

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

Germ Cell Mutagenicity

| Name | Route | Value |
|---|----------|--|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | In vivo | Not mutagenic |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Oxide glass chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| antimony trioxide | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| antimony trioxide | In vivo | 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 |

Carcinogenicity

| Caremogenicity | | | |
|---|------------|-------------------------------|--|
| Name | Route | Species | Value |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Oxide glass chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| antimony trioxide | Inhalation | Multiple animal species | Carcinogenic. |
| Carbon black | Dermal | Mouse | Not carcinogenic |
| Carbon black | Ingestion | Mouse | Not carcinogenic |
| Carbon black | Inhalation | Rat | Carcinogenic. |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|---|------------|--|---------|------------------------|------------------------------|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| antimony trioxide | Inhalation | Not classified for female reproduction | Rat | LOAEL 0.25 mg/l | premating & during gestation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|-------------------|------------|------------------------|-----------------------------------|---------|-------------|----------------------|
| antimony trioxide | Inhalation | respiratory irritation | Some positive data exist, but the | | NOAEL Not | |
| | | | data are not sufficient for | | available | |
| | | | classification | | | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|--|--|---------|-----------------------------|-----------------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| bis-[4-(2,3- epoxipropoxi)phenyl]prop ane | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Oxide glass chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| antimony trioxide | Dermal | skin | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| antimony trioxide | Inhalation | pulmonary fibrosis | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.002 mg/l | 1 years |
| antimony trioxide | Inhalation | liver | Not classified | Rat | NOAEL 0.043 mg/l | 1 years |
| antimony trioxide | Inhalation | blood | Not classified | Rat | NOAEL 0.004 mg/l | not available |
| antimony trioxide | Inhalation | pneumoconiosis | Not classified | Human | LOAEL 0.01 mg/l | occupational exposure |
| antimony trioxide | Inhalation | heart | Not classified | Rat | NOAEL 0.02 mg/l | 1 years |
| antimony trioxide | Ingestion | blood liver | Not classified | Rat | NOAEL 418 mg/kg/day | not available |
| antimony trioxide | Ingestion | heart | Not classified | Rat | NOAEL Not available | not available |
| Carbon black | Inhalation | pneumoconiosis | 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 |
|---|------------|------------------|---|----------|---------------|--------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Activated sludge | Analogous Compound | 3 hours | IC50 | >100 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Rainbow trout | Estimated | 96 hours | LC50 | 2 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Water flea | Estimated | 48 hours | EC50 | 1.8 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Green algae | Experimental | 72 hours | ErC50 | >11 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Green algae | Experimental | 72 hours | NOEC | 4.2 mg/l |
| bis-[4-(2,3- epoxipropoxi)phenyl]pr opane | 1675-54-3 | Water flea | Experimental | 21 days | NOEC | 0.3 mg/l |
| Bis(bromomethyl)propa ne-1,3-diol, oligomeric reaction products with 1-chloro-2,3- epoxypropane | | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Oxide glass chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| antimony trioxide | 1309-64-4 | Green algae | Endpoint not reached | 72 hours | EC50 | >100 mg/l |
| antimony trioxide | 1309-64-4 | N/A | Estimated | 96 hours | EC50 | 2.12 mg/l |
| antimony trioxide | 1309-64-4 | Fathead minnow | Estimated | 96 hours | LC50 | 17.2 mg/l |
| antimony trioxide | 1309-64-4 | Fish | Estimated | 96 hours | LC50 | 8.3 mg/l |
| antimony trioxide | 1309-64-4 | Activated sludge | Experimental | 4 hours | NOEC | 6.1 mg/l |
| antimony trioxide | 1309-64-4 | Rainbow trout | Estimated | 28 days | LC10 | 0.188 mg/l |
| antimony trioxide | 1309-64-4 | Water flea | Estimated | 21 days | NOEC | 2.08 mg/l |
| antimony trioxide | 1309-64-4 | Green algae | Experimental | 72 | NOEC | 2.53 mg/l |
| Carbon black | 1333-86-4 | Activated sludge | Experimental | 3 hours | EC50 | >=100 mg/l |
| Carbon black | 1333-86-4 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |

12.2. Persistence and degradability

| Material | CAS Nbr | Test type | Duration | Study Type | Test result | Protocol |
|--------------|-----------|--------------|----------|------------|-------------|------------------------|
| bis-[4-(2,3- | 1675-54-3 | Experimental | 28 days | BOD | 5 %BOD/COD | OECD 301F - Manometric |

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| epoxipropoxi)phenyl]propa ne | | Biodegradation | | | | respirometry |
|--|------------|-----------------------------------|-----|-----------------------------|-----|-----------------------------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | 1675-54-3 | Experimental Hydrolysis | | Hydrolytic half-life (pH 7) | , | OECD 111 Hydrolysis func of pH |
| 2,2- Bis(bromomethyl)propane- 1,3-diol, oligomeric reaction products with 1-chloro-2,3- epoxypropane | 31452-80-9 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| antimony trioxide | 1309-64-4 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |
| Carbon black | 1333-86-4 | Data not availbl- insufficient | N/A | N/A | N/A | N/A |

12.3 : Bioaccumulative potential

| Material | Cas No. | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|------------|-------------|------------------------------|
| bis-[4-(2,3- epoxipropoxi)phenyl]propa ne | 1675-54-3 | Experimental Bioconcentration | | Log Kow | 3.242 | OECD 117 log Kow HPLC method |
| 2,2- Bis(bromomethyl)propane- 1,3-diol, oligomeric reaction products with 1- chloro-2,3-epoxypropane | 31452-80-9 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Oxide glass chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| antimony trioxide | 1309-64-4 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 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

| Material | Cas No. | Test type | Study Type | Test result | Protocol |
|---------------------------------------|---------|--------------------------|------------|-------------|------------------------|
| bis-[4-(2,3-epoxipropoxi)phenyl]propa | | Modeled Mobility in Soil | Koc | 450 l/kg | Episuite TM |
| ne | | | | | |

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. 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

| | Ground Transport (ADR) | Air Transport (IATA) | Marine Transport (IMDG) |
|--|--|---|--|
| 14.1 UN number or ID number | UN3077 | UN3077 | UN3077 |
| 14.2 UN proper shipping name | SUBSTANCE, SOLID, | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(BISPHENOL A DIGLYCIDYL ETHER) |
| 14.3 Transport hazard class(es) | 9 | 9 | 9 |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | Environmentally Hazardous | Not applicable | Marine Pollutant |
| 14.6 Special precautions for user | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. | Please refer to the other sections of the SDS for further information. |
| 14.7 Marine Transport in bulk according to IMO instruments | No data available. | No data available. | No data available. |
| Control Temperature | No data available. | No data available. | No data available. |
| Emergency Temperature | No data available. | No data available. | No data available. |

| ADR Classification Code | M7 | Not applicable. | Not applicable. |
|-------------------------|-----------------|-----------------|-----------------|
| | | | |
| IMDG Segregation Code | Not applicable. | Not applicable. | NONE |
| | | | |

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

SECTION 15: Regulatory information

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

Carcinogenicity

| Ingredient | CAS Nbr | Classification | Regulation |
|---|-----------|-------------------------|------------------------|
| antimony trioxide | 1309-64-4 | Carc. 2 | Regulation (EC) No. |
| | | | 1272/2008, Table 3.1 |
| antimony trioxide | 1309-64-4 | Grp. 2B: Possible human | International Agency |
| | | carc. | for Research on Cancer |
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | 1675-54-3 | Gr. 3: Not classifiable | International Agency |
| | | | for Research on Cancer |
| Carbon black | 1333-86-4 | Grp. 2B: Possible human | International Agency |
| | | carc. | for Research on Cancer |

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

The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient CAS Nbr bis-[4-(2,3-epoxipropoxi)phenyl]propane 1675-54-3

Restriction status: listed in REACH Annex XVII

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

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

| Hazard Categories | Qualifying quantity (tonnes) for the application of | | |
|-----------------------------|---|-------------------------|--|
| | Lower-tier requirements | Upper-tier requirements | |
| E2 Hazardous to the Aquatic | 200 | 500 | |
| environment | | | |

Seveso named dangerous substances, Annex 1, Part 2

| Dangerous Substances | Identifier(s) | Qualifying quantity (tonnes) for the application of | |
|----------------------|---------------|---|-------------------------|
| | | Lower-tier requirements | Upper-tier requirements |
| antimony trioxide | 1309-64-4 | 200 | 500 |

Regulation (EU) No 649/2012

No chemicals listed

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

| H315 | Causes skin irritation. |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects |

Revision information:

Industrial Use of Adhesives: Section 16: Annex information was modified.

Section 14 Classification Code – Regulation Data information was modified.

Section 14 Hazard Class + Sub Risk – Regulation Data information was modified.

Section 14 Hazardous/Not Hazardous for Transportation information was modified.

Section 14 Other Dangerous Goods – Regulation Data information was modified.

Section 14 Packing Group – Regulation Data information was modified.

Section 14 Proper Shipping Name information was modified.

Section 14 Segregation – Regulation Data information was modified.

Section 14 UN Number Column data information was modified.

Section 15: Carcinogenicity information information was modified.

Annex

| 1 T:41- | |
|--|--|
| 1. Title | La succession in the second se |
| Substance identification | bis-[4-(2,3-epoxipropoxi)phenyl]propane; |
| | EC No. 216-823-5; |
| | CAS Nbr 1675-54-3; |
| | |
| Exposure Scenario Name | Formulation |
| Lifecycle Stage | Formulation or re-packing |
| Contributing activities | PROC 09 -Transfer of substance or mixture into small containers (dedicated |
| G | filling line, including weighing) |
| | ERC 02 -Formulation into mixture |
| Processes, tasks and activities covered | Batch manufacture of a chemical substance or formulation (including |
| 1 rocesses, tasks and activities covered | polymerisation reactions). |
| 2.0 | 11 2 |
| 2. Operational conditions and risk mana | |
| Operating Conditions | Physical state:Liquid. |
| | General operating conditions: |
| | Duration of use: 8 hours/day; |
| | Emission days per year: <= 225 days per year; |
| | |
| D'al | The design of th |
| Risk management measures | Under the operational conditions described above the following risk management |
| | measures apply: |
| | General risk management measures: |
| | Human health: |

| | Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for |
|---|--|
| | specific glove material.; |
| | Environmental: |
| | Waste Water treatment - Incineration; |
| Waste management measures | Do not apply industrial sludge to natural soils; |
| · · · · · · · · · · · · · · · · · · · | Prevent leaks and prevent soil / water pollution caused by leaks; |
| | |
| 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. |
| 4. (0)(4) | |
| 1. Title | 1: [4 (2 2 : : : : |
| Substance identification | bis-[4-(2,3-epoxipropoxi)phenyl]propane; |
| | EC No. 216-823-5; |
| | CAS Nbr 1675-54-3; |
| Exposure Scenario Name | Industrial Use of Adhesives |
| Lifecycle Stage | Use at industrial sites |
| Contributing activities | PROC 08a -Transfer of substance or mixture (charging and discharging) at non- |
| 5 · · · · · · · · · · · · · · · · · · · | dedicated facilities |
| | 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. Application with a wipe. Transfers without dedicated controls, |
| | including loading, filling, dumping, bagging. |
| 2. Operational conditions and risk man | agement measures |
| Operating Conditions | Physical state:Liquid. |
| | General operating conditions: |
| | Duration of use: 8 hours/day; |
| | Emission days per year: 220 days/year; |
| | Frequency of exposure at workplace [for one worker]: 5 days/week; |
| Risk management measures | Under the operational conditions described above the following risk management |
| rusk munugement meusures | measures apply: |
| | General risk management measures: |
| | Human health: |
| | Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for |
| | specific glove material.; |
| | Environmental: |
| | None needed; |
| Westernand | De not apply industrial sludge to natural collection |
| Waste management measures | Do not apply industrial sludge to natural soils; Prevent discharge of undissolved substance to or recover from wastewater; |
| | r revent discharge of undissolved substance to of recover from wastewater; |
| 3. Prediction of exposure | |
| Prediction of exposure | Human and environmental exposures are not expected to exceed the DNELs and |
| 1 realction of exposure | Truman and environmental exposures are not expected to exceed the DNELS and |

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.

PNECs when the identified risk management measures are adopted.

| 3M™ Scotch-Weld™ Structural Void Filling Compound EC-3524 B/A Black : Part B | |
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| AMILIAMONO TILA AM | |
| 3M Ireland MSDSs are available at www.3M.com | |
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