

# Safety Data Sheet

Copyright,2023, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 04-1027-4
 Version number:
 19.00

 Revision date:
 01/08/2023
 Supersedes date:
 06/06/2023

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 Scotch-Weld 3524 Low Density Void Filler Antimony Free

### **Product Identification Numbers**

FS-9100-3960-1

7000080057

### 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 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:

10-9736-9, 10-9737-7

# 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:**

Acute Toxicity, Category 4 - Acute Tox. 4; H302 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 Reproductive Toxicity, Category 1B - Repr. 1B; H360FD

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

DANGER.

### **Symbols**

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

### **Pictograms**



### Contains:

2,4,6-tris(dimethylaminomethyl)phenol.; 3,6-diazaoctanethylenediamin; Tris(methylphenyl) phosphate; Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; bis-[4-(2,3-epoxipropoxi)phenyl]propane; Barium diboron tetraoxide

### **HAZARD STATEMENTS:**

H302 Harmful if swallowed.

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

H360FD May damage fertility. May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

## PRECAUTIONARY STATEMENTS

**Prevention:** 

P201 Obtain special instructions before use.

P260B Do not breathe dust.

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

\_\_\_\_\_

## 3M Scotch-Weld 3524 Low Density Void Filler Antimony Free

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.

### SUPPLEMENTAL INFORMATION:

## **Supplemental Precautionary Statements:**

Restricted to professional users.

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

### **Revision information:**

Label: CLP Classification information was modified.

Label: CLP Precautionary - Disposal information was deleted. Label: CLP Precautionary - Prevention information was modified.

Section 02: SDS Elements: CLP Supplemental Precautionary Statements information was added.



## Safety Data Sheet

Copyright, 2023, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 10-9736-9
 Version number:
 23.01

 Revision date:
 29/10/2023
 Supersedes date:
 13/06/2023

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<sup>™</sup> Low Density Void Filler 3524 B/A AF 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:**

Acute Toxicity, Category 4 - Acute Tox. 4; H302 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 Reproductive Toxicity, Category 1B - Repr. 1B; H360FD 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

DANGER.

### **Symbols**

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

## **Pictograms**



### **Ingredients:**

Ingredient	CAS Nbr	EC No.	% by Wt
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	500-191-5	15 - 40
Barium diboron tetraoxide	13701-59-2	237-222-4	< 10
3,6-diazaoctanethylenediamin	112-24-3	203-950-6	< 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	< 5

## **HAZARD STATEMENTS:**

H302 Harmful if swallowed.

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

H360FD May damage fertility. May damage the unborn child.

H411 Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P201 Obtain special instructions before use.

P260B Do not breathe dust.

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.

## SUPPLEMENTAL INFORMATION:

## **Supplemental Precautionary Statements:**

Restricted to professional users.

5% of the mixture consists of components of unknown acute oral toxicity.

5% of the mixture consists of components of unknown acute dermal toxicity. 75% of the mixture consists of components of unknown acute inhalation toxicity.

### 2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. 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]
Oxide glass chemicals	(CAS-No.) 65997-17-3 (EC-No.) 266-046-0	15 -	40	Substance with a national occupational exposure limit
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	(CAS-No.) 68082-29-1 (EC-No.) 500-191-5	15 -	40	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Tris(methylphenyl) phosphate	(CAS-No.) 1330-78-5 (EC-No.) 215-548-8	10 -	20	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Repr. 2, H361f
Barium diboron tetraoxide	(CAS-No.) 13701-59-2 (EC-No.) 237-222-4	< 10		Acute Tox. 3, H301(LD50 = 100 mg/kg **ATE values per Annex VI**) Acute Tox. 4, H332(LC50 = 1.5 mg/l **ATE values per Annex VI**) Repr. 1B, H360FD Aquatic Chronic 3, H412
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene]	(CAS-No.) 84852-53-9 (EC-No.) 284-366-9 (REACH-No.) 01- 2119474877-18	< 5		Substance not classified as hazardous
3,6-diazaoctanethylenediamin	(CAS-No.) 112-24-3 (EC-No.) 203-950-6	< 5		Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2 (EC-No.) 202-013-9 (REACH-No.) 01- 2119560597-27	< 5		Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318
Aluminium hydroxide	(CAS-No.) 21645-51-2 (EC-No.) 244-492-7 (REACH-No.) 01- 2119529246-39	< 5		Substance with a national occupational exposure limit

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. 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:

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). Harmful if swallowed.

## 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** 

Amine compounds. Carbon monoxide Carbon dioxide.

Hydrogen Bromide

### 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

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 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 Barium, soluable compounds	CAS Nbr 13701-59-2	<b>Agency</b> Ireland OELs	Limit type TWA(8 hours):0.5 mg/m3	Additional comments as Ba
Borates	13701-59-2	Ireland OELs	TWA(8 hours):2 mg/m3	
DUST, INERT OR NUISANCE	21645-51-2	Ireland OELs	TWA(Total inhalable dust)(8 hours):10 mg/m3;TWA(as respirable dust)(8 hours):4 mg/m3	
Mineral wool, with the exception of those specified elsewhere in this Annex	65997-17-3	Ireland OELs	TWA(8 hours):5 mg/m3(2 fiber/cc)	
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	
Ireland OFLs: Ireland OFLs			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	Population	Human exposure	DNEL
	Product		pattern	
Tris(methylphenyl)		Worker	Dermal, Long-term	3.33 mg/kg bw/d
phosphate			exposure (8 hours),	
			Systemic effects	
Tris(methylphenyl)		Worker	Dermal, Short-term	16 mg/cm2
phosphate			exposure, Local effects	_
Tris(methylphenyl)		Worker	Dermal, Short-term	74 mg/kg bw/d
phosphate			exposure, Systemic	
			effects	
Tris(methylphenyl)		Worker	Inhalation, Long-term	0.47 mg/m <sup>3</sup>
phosphate			exposure (8 hours),	
			Systemic effects	
Tris(methylphenyl)		Worker	Inhalation, Short-term	1.11 mg/m <sup>3</sup>
phosphate			exposure, Systemic	
			effects	

### Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
Tris(methylphenyl) phosphate		Agricultural soil	0.409 mg/kg d.w.
Tris(methylphenyl) phosphate		Freshwater	0.001 mg/l
Tris(methylphenyl) phosphate		Freshwater sediments	2.05 mg/kg d.w.
Tris(methylphenyl) phosphate		Intermittent releases to water	0.00146 mg/l
Tris(methylphenyl) phosphate		Marine water	0.0001 mg/l
Tris(methylphenyl) phosphate		Marine water sediments	0.205 mg/kg d.w.
Tris(methylphenyl) phosphate		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. 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.

Gloves made from the following material(s) are recommended:

MaterialThickness (mm)Breakthrough TimeButyl rubber.No data availableNo data availableNeoprene.No data availableNo data availableNitrile rubber.No 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 – Butyl rubber Neoprene apron.

Apron – Nitrile

### 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 stateSolid.Specific Physical Form:PasteColourOff-WhiteOdorAmine

Odour thresholdNo data available.Melting point/freezing pointNo data available.Boiling point/boiling rangeNot applicable.Flammability (solid, gas)Not classifiedFlammable Limits(LEL)Not applicable.Flammable Limits(UEL)Not applicable.

Flash point 150 °C [Test Method:Closed Cup]

## 3M Scotch-Weld<sup>TM</sup> Low Density Void Filler 3524 B/A AF Part A

Autoignition temperature
Decomposition temperature

pН

Kinematic Viscosity Water solubility Solubility- non-water Partition coefficient: n-octanol/water

Vapour pressure

**Density** 

Relative density

**Relative Vapour Density** 

No data available. No data available.

substance/mixture is non-soluble (in water)

No data available. No data available. No data available. No data available. Not applicable.

0.45 g/ml 0.45 [*Ref Std:*WATER=1]

Not applicable.

### 9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds Evaporation rate Percent volatile No data available. Not applicable.

<=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

None known.

## 10.5 Incompatible materials

Strong oxidising agents.

### 10.6 Hazardous decomposition products

Substance None known. Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not agree with the 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 irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. 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 ATE >5,000 mg/kg
Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Dermal	Rat	LD50 > 2,000 mg/kg
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Ingestion	Rat	LD50 > 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
Tris(methylphenyl) phosphate	Dermal	Rabbit	LD50 3,700 mg/kg
Tris(methylphenyl) phosphate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.2 mg/l
Tris(methylphenyl) phosphate	Ingestion	Rat	LD50 15,750 mg/kg
Barium diboron tetraoxide	Dermal	Rabbit	LD50 > 2,000 mg/kg
Barium diboron tetraoxide	Ingestion	Rabbit	LD50 100 mg/kg
Barium diboron tetraoxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 1.5 mg/l
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
3,6-diazaoctanethylenediamin	Dermal	Rabbit	LD50 550 mg/kg
3,6-diazaoctanethylenediamin	Ingestion	Rat	LD50 2,500 mg/kg

## 3M Scotch-Weld<sup>TM</sup> Low Density Void Filler 3524 B/A AF Part A

Aluminium hydroxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminium hydroxide	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminium hydroxide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

## **Skin Corrosion/Irritation**

Name	Species	Value
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil	In vitro	Irritant
fatty acids and triethylenetetramine	data	
Oxide glass chemicals	Professio	No significant irritation
	nal	
	judgemen	
	t	
Tris(methylphenyl) phosphate	Rabbit	No significant irritation
Barium diboron tetraoxide	Rabbit	No significant irritation
2,4,6-tris(dimethylaminomethyl)phenol	Rabbit	Corrosive
3,6-diazaoctanethylenediamin	Rabbit	Corrosive
Aluminium hydroxide	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Rabbit	Corrosive
Oxide glass chemicals	Professio nal judgemen t	No significant irritation
Tris(methylphenyl) phosphate	Rabbit	No significant irritation
Barium diboron tetraoxide	Rabbit	No significant irritation
2,4,6-tris(dimethylaminomethyl)phenol	Rabbit	Corrosive
3,6-diazaoctanethylenediamin	Rabbit	Corrosive
Aluminium hydroxide	Rabbit	No significant irritation

## **Skin Sensitisation**

Name	Species	Value
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Mouse	Sensitising
Tris(methylphenyl) phosphate	Professio	Not classified
	nal	
	judgemen	
	t	
Barium diboron tetraoxide	Guinea	Not classified
	pig	
2,4,6-tris(dimethylaminomethyl)phenol	Guinea	Not classified
	pig	
3,6-diazaoctanethylenediamin	Guinea	Sensitising
	pig	
Aluminium hydroxide	Guinea	Not classified
	pig	

## **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
Oxide glass chemicals	In Vitro	Some positive data exist, but the data are not

		sufficient for classification
Tris(methylphenyl) phosphate	In Vitro	Not mutagenic
Tris(methylphenyl) phosphate	In vivo	Not mutagenic
Barium diboron tetraoxide	In Vitro	Not mutagenic
Barium diboron tetraoxide	In vivo	Not mutagenic
2,4,6-tris(dimethylaminomethyl)phenol	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Oxide glass chemicals	Inhalation	Multiple animal	Some positive data exist, but the data are not sufficient for classification
		species	
Tris(methylphenyl) phosphate	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Aluminium hydroxide	Not	Multiple	Not carcinogenic
	specified.	animal	
		species	

## Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Tris(methylphenyl) phosphate	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during gestation
Tris(methylphenyl) phosphate	Ingestion	Toxic to female reproduction	Multiple animal species	NOAEL Not available	premating into lactation
Tris(methylphenyl) phosphate	Ingestion	Toxic to male reproduction	Multiple animal species	NOAEL Not available	premating into lactation
Barium diboron tetraoxide	Ingestion	Toxic to female reproduction	Rat	NOAEL 800 mg/kg/day	90 days
Barium diboron tetraoxide	Ingestion	Toxic to development	Rabbit	NOAEL 20 mg/kg/day	during organogenesis
Barium diboron tetraoxide	Ingestion	Toxic to male reproduction	Rat	NOAEL 350 mg/kg/day	90 days
Aluminium hydroxide	Ingestion	Not classified for development	Rat	NOAEL 768 mg/kg/day	during organogenesis

## Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Tris(methylphenyl) phosphate	Ingestion	peripheral nervous system	Not classified	Chicken	NOAEL 2,000 mg/kg	
Barium diboron tetraoxide	Ingestion	nervous system	Not classified	Rat	NOAEL 200 mg/kg	
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
Oxide glass chemicals	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Tris(methylphenyl) phosphate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 230 mg/kg/day	13 weeks
Tris(methylphenyl) phosphate	Ingestion	endocrine system   liver   heart   skin	Not classified	Rat	NOAEL 750 mg/kg/day	13 weeks

\_\_\_\_\_

Barium diboron tetraoxide	Ingestion	gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system   hematopoietic	Not classified	Rat	NOAEL 700	90 days
		system   liver   heart   skin   endocrine system   bone, teeth, nails, and/or hair   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system			mg/kg/day	
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

## **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
Fatty acids, C18- unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	Activated sludge	Experimental	3 hours	EC10	130 mg/l
Fatty acids, C18- unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	Green algae	Experimental	72 hours	EC50	4.34 mg/l
Fatty acids, C18- unsaturated, dimers, oligomeric reaction	68082-29-1	Water flea	Experimental	48 hours	EC50	7.07 mg/l

\_\_\_\_\_

products with tall-oil						
fatty acids and						
triethylenetetramine						
Fatty acids, C18-	68082-29-1	Zebra Fish	Experimental	96 hours	LC50	7.07 mg/l
unsaturated, dimers,						
oligomeric reaction						
products with tall-oil						
fatty acids and						
triethylenetetramine	(0002 20 1	C 1		72.1	NOEC	0.5 //
Fatty acids, C18- unsaturated, dimers.	68082-29-1	Green algae	Experimental	72 hours	NOEC	0.5 mg/l
oligomeric reaction						
products with tall-oil						
fatty acids and						
triethylenetetramine						
	65997-17-3	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Oxide glass ellermedis	03,7,7 1,7 3	Green argue	Experimental	72 nours	Leso	1,000 mg/
Oxide glass chemicals	65997-17-3	Water flea	Experimental	72 hours	EC50	>1,000 mg/l
				, = 222 422		1,000
Oxide glass chemicals	65997-17-3	Zebra Fish	Experimental	96 hours	LC50	>1,000 mg/l
			F			,,,,,,
Oxide glass chemicals	65997-17-3	Green algae	Experimental	72 hours	NOEC	>=1,000 mg/l
			'			, ,
Tris(methylphenyl)	1330-78-5	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
phosphate			'			, ,
Barium diboron	13701-59-2	Activated sludge	Experimental	3 hours	NOEC	100 mg/l
tetraoxide			'			
Barium diboron	13701-59-2	Green algae	Experimental	72 hours	EC50	7.8 mg/l
tetraoxide			'			
Barium diboron	13701-59-2	Rainbow trout	Experimental	96 hours	LC50	62 mg/l
tetraoxide			'			
Barium diboron	13701-59-2	Water flea	Experimental	48 hours	EC50	20.3 mg/l
tetraoxide			'			
Barium diboron	13701-59-2	Green algae	Experimental	72 hours	NOEC	1.1 mg/l
tetraoxide			'			
Aluminium hydroxide	21645-51-2	Fish	Experimental	96 hours	No tox obs at lmt	>100 mg/l
			1		of water sol	
Aluminium hydroxide	21645-51-2	Green algae	Experimental	72 hours	No tox obs at lmt	>100 mg/l
			1		of water sol	
Aluminium hydroxide	21645-51-2	Water flea	Experimental	48 hours	No tox obs at lmt	>100 mg/l
•			-		of water sol	_
Aluminium hydroxide	21645-51-2	Green algae	Experimental	72 hours	No tox obs at lmt	100 mg/l
-					of water sol	
1,1'-(Ethane-1,2-	84852-53-9	Activated sludge	Experimental	3 hours	NOEC	10 mg/l
diyl)bis[pentabromoben						
zene]						
1,1'-(Ethane-1,2-	84852-53-9	Green algae	Experimental	96 hours	EC50	>100 mg/l
diyl)bis[pentabromoben						
zene]						
1,1'-(Ethane-1,2-	84852-53-9	Rainbow trout	Experimental	96 hours	No tox obs at lmt	>100 mg/l
diyl)bis[pentabromoben					of water sol	
zene]						
1,1'-(Ethane-1,2-	84852-53-9	Water flea	Experimental	48 hours	No tox obs at lmt	>100 mg/l
diyl)bis[pentabromoben					of water sol	
zene]		1	1			
1,1'-(Ethane-1,2-	84852-53-9	Green algae	Experimental	96 hours	No tox obs at lmt	>100 mg/l
diyl)bis[pentabromoben					of water sol	
zene]		ļ	<u> </u>	<b></b>	707:	
3,6-	112-24-3	Green algae	Experimental	72 hours	EC50	27.4 mg/l
diazaoctanethylenediam						
in 2.6	1112 24 2		lp.	061	1.050	570 /
3,6-	112-24-3	Guppy	Experimental	96 hours	LC50	570 mg/l
diazaoctanethylenediam						
1n	112 24 2	W C	P :	40.1	ECCO	27.4 //
3,6-	112-24-3	Water flea	Experimental	48 hours	EC50	37.4 mg/l
diazaoctanethylenediam						
in	<u> </u>					1

3,6- diazaoctanethylenediam in	112-24-3	Green algae	Experimental	72 hours	NOEC	0.468 mg/l
3,6- diazaoctanethylenediam in	112-24-3	Water flea	Experimental	21 days	NOEC	2.86 mg/l
2,4,6- tris(dimethylaminometh yl)phenol	90-72-2	N/A	Experimental	96 hours	LC50	718 mg/l
2,4,6- tris(dimethylaminometh yl)phenol	90-72-2	Common Carp	Experimental	96 hours	LC50	>100 mg/l
2,4,6- tris(dimethylaminometh yl)phenol	90-72-2	Green algae	Experimental	72 hours	EC50	46.7 mg/l
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

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Fatty acids, C18- unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	Analogous Compound Biodegradation	28 days	CO2 evolution	<8 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Oxide glass chemicals	65997-17-3	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Barium diboron tetraoxide	13701-59-2	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Aluminium hydroxide	21645-51-2	Data not availbl- insufficient	N/A	N/A	N/A	N/A
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene	84852-53-9	Experimental Biodegradation	28 days	BOD	0 %BOD/ThO D	OECD 301C - MITI test (I)
3,6- diazaoctanethylenediamin	112-24-3	Experimental Biodegradation	20 days	BOD	0 %BOD/ThO D	OECD 301D - Closed bottle test
2,4,6- tris(dimethylaminomethyl)p henol	90-72-2	Experimental Biodegradation	28 days	BOD	4 %BOD/ThO D	OECD 301D - Closed bottle test

# 12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Fatty acids, C18- unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	Experimental Bioconcentration		Log Kow	≤3.55	OECD 117 log Kow HPLC method
Oxide glass chemicals	65997-17-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Barium diboron tetraoxide	13701-59-2	Experimental Bioconcentration		Log Kow	-0.70	
Aluminium hydroxide	21645-51-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzen e]	84852-53-9	Experimental Bioconcentration		Log Kow	3.55	

Page: 14 of 19

3,6-	112-24-3	Experimental BCF -	42 days	Bioaccumulation	< 5.0	OECD305-Bioconcentration
diazaoctanethylenediamin		Fish	•	factor		
2,4,6-	90-72-2	Experimental		Log Kow	-0.66	830.7550 Part.Coef Shake
tris(dimethylaminomethyl)		Bioconcentration				Flask
phenol						

### 12.4. Mobility in soil

No test data available.

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

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

## 12.6. 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	UN3263	UN3263	UN3263
name	N.O.S.(TRIS(2,4,6- DIMETHYLAMINOMONO	N.O.S.(TRIS(2,4,6- DIMETHYLAMINOMONOM	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.(TRIS(2,4,6- DIMETHYLAMINOMONO METHYL)PHENOL;

			TRICRESYL PHOSPHATE)
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	Ш	Ш	Ш
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.
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.
<b>Emergency Temperature</b>	No data available.	No data available.	No data available.
ADR Classification Code	C8	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

### **Authorization status under REACH:**

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

IngredientCAS NbrBarium diboron tetraoxide13701-59-2

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

## 3M Scotch-Weld<sup>TM</sup> Low Density Void Filler 3524 B/A AF Part A

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 (ton	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements	
Tris(methylphenyl) phosphate	1330-78-5	50	200	
Tris(methylphenyl) phosphate	1330-78-5	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

H301	Toxic if swallowed.
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.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### **Revision information:**

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

Section 11: Acute Toxicity table information was modified.

## **Annex**

1. Title	
Substance identification	Tris(methylphenyl) phosphate; EC No. 215-548-8; CAS Nbr 1330-78-5;
Exposure Scenario Name	Formulation
Lifecycle Stage	Use at industrial sites

\_\_\_\_\_

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	Transfer of substances/mixtures into small containers e.g. tubes , bottles or small		
	reservoirs.		
2. Operational conditions and risk mana	gement measures		
<b>Operating Conditions</b>	Physical state:Liquid.		
	General operating conditions:		
	Continuous release;		
	Duration of exposure per day at workplace [for one worker]: 8 hours/day;		
	Indoor use with Local Exhaust Ventilation;		
	Processing Temperature:: 20 - 26 degree Celsius;		
Risk management measures	Under the operational conditions described above the following risk management		
	measures apply:		
	General risk management measures:		
	Human health:		
	Goggles - Chemical resistant;		
	Protective clothing / Wear suitable protective clothing;		
	Protective Gloves - Polyvinyl Chloride;		
	Ventilated Process Enclosures;		
	Environmental:		
	None needed;		
Waste management measures	Do not apply industrial sludge to natural soils;		
	Do not release directly to waterways;		
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.		

1. Title		
Substance identification	Tris(methylphenyl) phosphate;	
Substance identification	EC No. 215-548-8;	
	CAS Nbr 1330-78-5;	
	CAS NOI 1550-70-5,	
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-	
	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. Transfer of substances/mixtures into small containers e.g.	
	tubes, bottles or small reservoirs.	
2. Operational conditions and risk mana	gement measures	
Operating Conditions	Physical state:Liquid.	
	General operating conditions:	
	Continuous release;	
	Duration of exposure per day at workplace [for one worker]: 8 hours/day;	
	Indoor use with Local Exhaust Ventilation;	
	Processing Temperature:: 20 - 26 degree Celsius;	
Risk management measures	Under the operational conditions described above the following risk management	
	measures apply:	
	General risk management measures:	
	Human health:	
	Goggles - Chemical resistant;	
	Protective clothing / Wear suitable protective clothing;	
	Protective Gloves - Polyvinyl Chloride;	

Page: 18 of 19

	Ventilated Process Enclosures;	
	Environmental:	
	None needed;	
	· ·	
	The following task-specific risk management measures apply in addition to those	
	listed above:	
	Task: PROC08a;	
	Human Health;	
	Protective Clothing - Apron;	
Waste management measures	Do not apply industrial sludge to natural soils;	
	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.

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



## Safety Data Sheet

Copyright, 2023, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

 Document group:
 10-9737-7
 Version number:
 19.00

 Revision date:
 07/03/2023
 Supersedes date:
 06/12/2022

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 Low Density Void Filler 3524 B/A AF Part B

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

### **Identified uses**

Base for two-part epoxy adhesive.

## 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 Reproductive Toxicity, Category 2 - Repr. 2; H361f 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	30 - 60
Tris(methylphenyl) phosphate	1330-78-5	215-548-8	7 - 13

### **HAZARD STATEMENTS:**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

**Prevention:** 

P273 Avoid release to the environment.

P280E Wear protective gloves.

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.

15% of the mixture consists of components of unknown acute oral toxicity.

### 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 (EC-No.) 216-823-5 (REACH-No.) 01- 2119456619-26	30 - 60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene]	(CAS-No.) 84852-53-9 (EC-No.) 284-366-9 (REACH-No.) 01- 2119474877-18	10 - 30	Substance not classified as hazardous
Oxide glass chemicals	(CAS-No.) 65997-17-3 (EC-No.) 266-046-0		Substance with a national occupational exposure limit
Tris(methylphenyl) phosphate	(CAS-No.) 1330-78-5 (EC-No.) 215-548-8	7 - 13	Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1 Repr. 2, H361f

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

No critical symptoms or effects. 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**

SubstanceConditionAldehydes.During combustion.Carbon monoxideDuring combustion.Carbon dioxide.During combustion.Hydrogen BromideDuring combustion.Hydrogen ChlorideDuring 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

Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store 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** 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

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	Population	Human exposure	DNEL
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	Product	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
Tris(methylphenyl) phosphate		Worker	Dermal, Long-term exposure (8 hours), Systemic effects	3.33 mg/kg bw/d
Tris(methylphenyl) phosphate		Worker	Dermal, Short-term exposure, Local effects	16 mg/cm2
Tris(methylphenyl) phosphate		Worker	Dermal, Short-term exposure, Systemic effects	74 mg/kg bw/d
Tris(methylphenyl) phosphate		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	0.47 mg/m <sup>3</sup>
Tris(methylphenyl) phosphate		Worker	Inhalation, Short-term exposure, Systemic effects	1.11 mg/m³

Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	7704400	Freshwater	0.003 mg/l
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne		Freshwater sediments	0.5 mg/kg d.w.
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
Tris(methylphenyl) phosphate		Agricultural soil	0.409 mg/kg d.w.
Tris(methylphenyl) phosphate		Freshwater	0.001 mg/l
Tris(methylphenyl) phosphate		Freshwater sediments	2.05 mg/kg d.w.
Tris(methylphenyl) phosphate		Intermittent releases to water	0.00146 mg/l
Tris(methylphenyl) phosphate		Marine water	0.0001 mg/l
Tris(methylphenyl) phosphate		Marine water sediments	0.205 mg/kg d.w.
Tris(methylphenyl) phosphate		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. 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:

Indirect vented goggles.

Page: 6 of 18

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 TimeButyl rubber.No data availableNo data availablePolymer 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 – Butyl rubber Apron - polymer laminate

## Respiratory protection

Wear respiratory protection if ventilation is inadequate to prevent overexposure.

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 stateSolid.Specific Physical Form:PasteColourBlueOdorEpoxy

Odour thresholdNo data available.Melting point/freezing pointNo data available.Boiling point/boiling range200 °C

Flammability (solid, gas)
Flammable Limits(LEL)
Flammable Limits(UEL)
Not applicable.
Not applicable.

Flash point 150 °C [Test Method:Closed Cup]

**Autoignition temperature**No data available.

### 3M Scotch-Weld Low Density Void Filler 3524 B/A AF Part B

**Decomposition temperature**No 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**Relative density
No data available.
0.5 [Ref Std: WATER=1]

**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 volatile1 % weight

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

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

## 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

None known.

### 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

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

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.

### **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. 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 ATE >5,000 mg/kg
Overall product	Ingestion		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
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
Tris(methylphenyl) phosphate	Dermal	Rabbit	LD50 3,700 mg/kg
Tris(methylphenyl) phosphate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 5.2 mg/l
Tris(methylphenyl) phosphate	Ingestion	Rat	LD50 15,750 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
	•	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Mild irritant
Oxide glass chemicals	Professio	No significant irritation
	nal	
	judgemen	
	t	
Tris(methylphenyl) phosphate	Rabbit	No significant irritation

Serious Eve Damage/Irritation

Name	Species	Value
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Rabbit	Moderate irritant
Oxide glass chemicals	Professio	No significant irritation

	nal judgemen t	
Tris(methylphenyl) phosphate	Rabbit	No significant irritation

## **Skin Sensitisation**

Name	Species	Value
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Human and animal	Sensitising
Tris(methylphenyl) phosphate	Professio nal judgemen t	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		
Tris(methylphenyl) phosphate	In Vitro	Not mutagenic		
Tris(methylphenyl) phosphate	In vivo	Not mutagenic		

Carcinogenicity

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
Tris(methylphenyl) phosphate	Ingestion	Multiple animal species	Not 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
Tris(methylphenyl) phosphate	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during gestation
Tris(methylphenyl) phosphate	Ingestion	Toxic to female reproduction	Multiple animal species	NOAEL Not available	premating into lactation
Tris(methylphenyl) phosphate	Ingestion	Toxic to male reproduction	Multiple animal	NOAEL Not available	premating into lactation

\_\_\_\_\_

3M Scotch-Weld Low Density Void Filler 3524 B/A AF Pa
---

	_	
	species	
	SDECIES	

## Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Tris(methylphenyl) phosphate	Ingestion	peripheral nervous system	Not classified	Chicken	NOAEL 2.000 mg/kg	

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
Tris(methylphenyl) phosphate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 230 mg/kg/day	13 weeks
Tris(methylphenyl) phosphate	Ingestion	endocrine system   liver   heart   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system	Not classified	Rat	NOAEL 750 mg/kg/day	13 weeks

### **Aspiration Hazard**

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

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

## 11.2. Information on other hazards

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

# **SECTION 12: Ecological information**

The information below may not agree with the 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		Activated sludge	Analogous Compound	3 hours	IC50	>100 mg/l
bis-[4-(2,3- epoxipropoxi)phenyl]pr opane		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
1,1'-(Ethane-1,2-diyl)bis[pentabromoben zene]	84852-53-9	Activated sludge	Experimental	3 hours	NOEC	10 mg/l
1,1'-(Ethane-1,2-diyl)bis[pentabromoben zene]	84852-53-9	Green algae	Experimental	96 hours	EC50	>100 mg/l
1,1'-(Ethane-1,2-diyl)bis[pentabromoben zene]	84852-53-9	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
1,1'-(Ethane-1,2-diyl)bis[pentabromoben zene]		Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
1,1'-(Ethane-1,2-diyl)bis[pentabromoben zene]	84852-53-9	Green algae	Experimental	96 hours	No tox obs at lmt of water sol	>100 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
Tris(methylphenyl) phosphate	1330-78-5	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l

# 12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
bis-[4-(2,3- epoxipropoxi)phenyl]propa ne	1675-54-3	Experimental Biodegradation	28 days	BOD	5 %BOD/COD	OECD 301F - Manometric 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
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzene	84852-53-9	Experimental Biodegradation	28 days	BOD	0 %BOD/ThO D	OECD 301C - MITI test (I)
Oxide glass chemicals	65997-17-3	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-	1675-54-3	Experimental		Log Kow	3.242	OECD 117 log Kow HPLC

### 3M Scotch-Weld Low Density Void Filler 3524 B/A AF Part B

epoxipropoxi)phenyl]propa		Bioconcentration				method
ne						
1,1'-(Ethane-1,2-diyl)bis[pentabromobenzen e]		Experimental Bioconcentration		Log Kow	3.55	
Oxide glass chemicals	65997-17-3	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-	1675-54-3	Modeled Mobility	Koc	450 l/kg	Episuite <sup>TM</sup>
epoxipropoxi)phenyl]propa		in Soil			
ne		1			

### 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**

(ADR)  All Transport (IATA)  (IMDG)		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.(TRICRESYL PHOSPHATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(TRICRESYL PHOSPHATE)
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.
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.
<b>Emergency Temperature</b>	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

IngredientCAS NbrClassificationRegulationbis-[4-(2,3-epoxipropoxi)phenyl]propane1675-54-3Gr. 3: Not classifiableInternational Agency<br/>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.

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

### Global inventory status

Contact 3M for more information.

### **DIRECTIVE 2012/18/EU**

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonn	es) for the application of
		Lower-tier requirements	Upper-tier requirements
Tris(methylphenyl) phosphate	1330-78-5	50	200
Tris(methylphenyl) phosphate	1330-78-5	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.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

### **Revision information:**

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

Section 8: DNEL table row information was modified.

Section 8: PNEC table row information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Mobility in soil information information was added.

Section 12: No Data text for mobility in soil information was deleted.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

## Annex

1. Title	
Substance identification	Tris(methylphenyl) phosphate;
	EC No. 215-548-8;

	CAS Nbr 1330-78-5;
Exposure Scenario Name	Formulation
Lifecycle Stage	Use at industrial sites
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	Transfer of substances/mixtures into small containers e.g. tubes, bottles or small
	reservoirs.
2. Operational conditions and risk mana	gement measures
Operating Conditions	Physical state:Liquid.
	General operating conditions:
	Continuous release;
	Duration of exposure per day at workplace [for one worker]: 8 hours/day;
	Indoor use with Local Exhaust Ventilation;
	Processing Temperature:: 20 - 26 degree Celsius;
Risk management measures	Under the operational conditions described above the following risk management
	measures apply:
	General risk management measures:
	Human health:
	Goggles - Chemical resistant;
	Protective clothing / Wear suitable protective clothing;
	Protective Gloves - Polyvinyl Chloride;
	Ventilated Process Enclosures;
	Environmental:
	None needed;
Waste management measures	Do not apply industrial sludge to natural soils;
	Do not release directly to waterways;
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.

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	
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
S	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.
1. Title	
Substance identification	Tris(methylphenyl) phosphate; EC No. 215-548-8; CAS Nbr 1330-78-5;
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-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. Transfer of substances/mixtures into small containers e.g. tubes, bottles or small reservoirs.
2. Operational conditions and risk mana Operating Conditions	gement measures Physical state:Liquid.
	General operating conditions: Continuous release; Duration of exposure per day at workplace [for one worker]: 8 hours/day; Indoor use with Local Exhaust Ventilation; Processing Temperature:: 20 - 26 degree Celsius;
Risk management measures	Under the operational conditions described above the following risk management measures apply:  General risk management measures:  Human health: Goggles - Chemical resistant; Protective clothing / Wear suitable protective clothing; Protective Gloves - Polyvinyl Chloride; Ventilated Process Enclosures; Environmental: None needed; ; The following task-specific risk management measures apply in addition to those listed above: Task: PROC08a; Human Health; Protective Clothing - Apron;
Waste management measures	Do not apply industrial sludge to natural soils; 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.
1 Title	
1. Title 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-	
	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 applicator gun. Transfers without dedicated controls,	
	including loading, filling, dumping, bagging.	
2. Operational conditions and risk management 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;	
D'.1	The device of th	
Risk management measures	Under the operational conditions described above the following risk management	
	measures apply:	
	General risk management measures: Human health:	
	114444444444444444444444444444444444444	
	Protective Gloves - Chemical resistant. Refer to Section 8 of the SDS for	
	specific glove material.;	
	Environmental:	
	None needed;	
Waste management measures	Do not apply industrial sludge to natural soils;	
0	Prevent discharge of undissolved substance to or recover from wastewater;	
	,	
3. Prediction of exposure	<u> </u>	
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	5	

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