

## SAFETY DATA SHEET

**Torrex Grip Primer Base** 

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

### 1.1 Product identifier

Product name : Torrex Grip Primer Base

Product description : Primer
Product type : Liquid.

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

Identified uses				
Industrial uses Professional uses				
Uses advised against Reason				
Consumer use	Product is not intended for consumer use.			

### 1.3 Details of the supplier of the safety data sheet

Tor Coatings Limited Portobello Industrial Estate Birtley County Durham United Kingdom DH3 2RE

Telephone no.: +44 (0) 191 4106611 Fax no.: +44 (0) 191 4920125 enquiries@tor-coatings.com

e-mail address of person responsible for this SDS

: rpmeurohas@ro-m.com

### 1.4 Emergency telephone number

**Supplier** 

**Telephone number** : +44 (0) 207 858 1228

Hours of operation : 24 / 7

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition**: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351

STOT RE 2, H373 (inhalation) Aguatic Chronic 3, H412

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### **SECTION 2: Hazards identification**

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms





Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure if inhaled.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General : Not applicable.

**Prevention**: P280 - Wear protective gloves and eye protection:

- nitrile rubber or butyl rubber gloves P260 - Do not breathe vapour.

P201 - Obtain special instructions before use. P273 - Avoid release to the environment.

Response : P302 - IF ON SKIN:

P352 - Wash with plenty of soap and water. P333 - If skin irritation or rash occurs:

P313 - Get medical attention. Get medical attention.

P308 - IF exposed or concerned:

**Storage** : P405 - Store locked up.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** : bisphenol-A-epoxy resinavg.mol.wght. ≤ 700; diantimony trioxide; bisphenol-F-

epoxy resin, avg.mol.wght. ≤ 700; crystalline silica, respirable powder; 1,6-bis(2,

3-epoxypropoxy)hexane

Supplemental label

elements

: Contains epoxy constituents. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Not applicable.

articles

**UFI Code** : 0SQG-70X1-CFNN-7PFE

Special packaging requirements

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

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### **SECTION 2: Hazards identification**

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect. The mixture may be a skin sensitiser. It may also be a severe skin irritant.

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
bis(pentabromophenyl) ether	REACH #: 01-2119472302-47 EC: 214-604-9 CAS: 1163-19-5	≥10 - ≤25	Not classified.	[3] [4]
bisphenol-A-epoxy resinavg.mol.wght. ≤ 700	EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
diantimony trioxide	REACH #: 01-2119475613-35 EC: 215-175-0 CAS: 1309-64-4 Index: 051-005-00-X	≤10	Carc. 2, H351	[1] [2]
bisphenol-F-epoxy resin, avg.mol.wght. ≤ 700	REACH #: 01-2119454392-40 CAS: 28064-14-4	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
crystalline silica, respirable powder	REACH #: 01-2120770509-45 EC: 238-878-4 CAS: 14808-60-7	≤5	STOT RE 1, H372 (respiratory tract) (inhalation)	[1] [2]
1,6-bis(2, 3-epoxypropoxy) hexane	REACH #: 01-2119463471-41 EC: 240-260-4 CAS: 16096-31-4	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
lead compounds	EC: 215-267-0 CAS: 1317-36-8 Index: 082-001-00-6	≤0,1	Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1A, H360Df (Unborn child and Fertility) STOT RE 1, H372 Aquatic Chronic 1, H410 (M=10)	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

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### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give

anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the

eyelids apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show the container or label.

Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the mixture and exposure to spray mist and vapour should be avoided.

Based on the properties of epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitiser and a severe irritant. It contains epoxy based reactive diluents which are moderate to severely irritating to eyes, mucous membrane and skin and are strong sensitisers. Repeated skin contact may lead to irritation and to hyper-sensitivity, possibly with cross-sensitisation to other epoxies. Single oral exposure to doses of the epoxy based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentration may cause adverse effects in target organs such as liver and kidney.

Contains bisphenol-A-epoxy resinavg.mol.wght.  $\leq$  700, bisphenol-F-epoxy resin, avg.mol.wght.  $\leq$  700, 1,6-bis(2, 3-epoxypropoxy)hexane. May produce an allergic reaction.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

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### **SECTION 4: First aid measures**

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** 

: No specific treatment.

See toxicological information (Section 11)

### SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing** 

: Do not use water jet.

media

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**Additional information** 

: No unusual hazard if involved in a fire.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and material for containment and cleaning up

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### SECTION 6: Accidental release measures

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

## 7.1 Precautions for safe handling

: Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

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

Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

### solutions

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

**Occupational exposure limits** 

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### **SECTION 8: Exposure controls/personal protection**

Product/ingredient name	Exposure limit values
diantimony trioxide	EH40/2005 WELs (United Kingdom (UK), 12/2011). Notes: as Sb
	TWA: 0,5 mg/m³, (as Sb), 0 times per shift, 8 hours.
crystalline silica, respirable powder	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 0,1 mg/m³ 8 hours. Form: respirable dust
lead compounds	EU OEL (Europe, 12/2017). Notes: list of binding occupational
	exposure limit values
	TWA: 0,15 mg/m³ 8 hours.

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

### **PNECs**

No PNECs available

#### 8.2 Exposure controls

## Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Recommended: safety glasses with side-shields.

#### **Skin protection**

### **Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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### SECTION 8: Exposure controls/personal protection

**Gloves** 

: For prolonged or repeated handling, use the following type of gloves:

Recommended: > 8 hours (breakthrough time): butyl rubber (0.6 mm) or nitrile rubber (0.5mm).

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

EN 374

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear overalls or long sleeved shirt. (EN 467)

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour (Type A) and particulate filter

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid.

Colour Not available. : Not available. **Odour Odour threshold** : Not available.

pН

: Not available. Melting point/freezing point Initial boiling point and : Not available.

boiling range Flash point

: Closed cup: Not applicable.

Not available. **Evaporation rate** Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Vapour pressure Not available. Vapour density : Not available. : 1,53 to 1,55 Relative density Solubility(ies) : Not available. Partition coefficient: n-octanol/: Not available.

water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available.

: Dynamic (room temperature): 550 mPa·s **Viscosity** 

: Not available. **Explosive properties** 

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### **SECTION 9: Physical and chemical properties**

**Oxidising properties** 

: Not available.

#### 9.2 Other information

No additional information.

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

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO2 and smoke can be generated.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
bis(pentabromophenyl) ether	LD50 Oral	Rat	2 g/kg	-
bisphenol-A-epoxy resinavg. mol.wght. ≤ 700	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Mouse	20000 mg/kg	-
	LD50 Oral	Rat	13600 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
diantimony trioxide	LC50 Inhalation Dusts and mists	Rat	>5200 mg/m³	4 hours
	LD50 Dermal	Rabbit	>8300 mg/kg	-
	LD50 Oral	Rat	>34,6 g/kg	-
1,6-bis(2,3-epoxypropoxy) hexane	LD50 Oral	Rat	2900 mg/kg	-

Conclusion/Summary

<u>Acute toxicity estimates</u>

: Based on available data, the classification criteria are not met.

Not available.

**Irritation/Corrosion** 

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### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis(pentabromophenyl) ether	Eyes - Severe irritant	Rabbit	-	100 microliters	-
bisphenol-A-epoxy resinavg. mol.wght. ≤ 700	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
diantimony trioxide	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
bisphenol-F-epoxy resin, avg.mol.wght. ≤ 700	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-
lead compounds	Skin - Mild irritant	Rabbit	-	24 hours 100 milligrams	-

**Conclusion/Summary** 

Skin : Causes skin irritation.

**Eyes** : Causes serious eye irritation.

**Respiratory**: May cause damage to organs through prolonged or repeated exposure if inhaled.

**Sensitisation** 

Conclusion/Summary

**Skin**: May cause an allergic skin reaction.

**Respiratory**: Based on available data, the classification criteria are not met.

**Mutagenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Carcinogenicity** 

**Conclusion/Summary**: Suspected of causing cancer.

**Reproductive toxicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

**Teratogenicity** 

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
, , ,			respiratory tract Not determined

### **Aspiration hazard**

Not available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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### **SECTION 11: Toxicological information**

Not available.

**Conclusion/Summary**: Based on available data, the classification criteria are not met.

General : May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

Other information : Not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
bis(pentabromophenyl) ether	Acute LC50 >500 mg/l	Fish	96 hours
bisphenol-A-epoxy resinavg. mol.wght. ≤ 700	Acute EC50 2,8 mg/l	Daphnia spec.	48 hours
	Acute EC50 1,4 to 1,7 mg/l	Daphnia spec.	48 hours
	Acute IC50 >42,6 mg/l	Algae	18 hours
	Acute LC50 3,1 mg/l	Fish	24 hours
	Acute LC50 3,1 mg/l	Fish	96 hours
	Acute LC50 3,6 mg/l	Fish	96 hours
	Acute LC50 9,4 mg/l	Fish	24 hours
diantimony trioxide	Acute EC50 730 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 423450 µg/l Fresh water	Daphnia spec Daphnia magna	48 hours
	Acute LC50 4,15 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 >530 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours
	Acute LC50 80000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 200 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
bisphenol-F-epoxy resin, avg.mol.wght. ≤ 700	Acute EC50 3,5 mg/l	Daphnia spec.	48 hours
	Acute LC50 5,7 mg/l	Fish	96 hours
lead compounds	Acute LC50 132 μg/l Fresh water	Daphnia spec Daphnia magna - Neonate	48 hours
	Acute LC50 298 μg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours

**Conclusion/Summary** 

: Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

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### SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
bisphenol-A-epoxy resinavg. mol.wght. ≤ 700	OECD 302B	12 % - Not readily - 28 days	-	-
bisphenol-F-epoxy resin, avg.mol.wght. ≤ 700	OECD 301B	10 to 16 % - Not readily - 28 days	-	-

**Conclusion/Summary** : This product has not been tested for biodegradation.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
bisphenol-A-epoxy resinavg.	-	-	Not readily
mol.wght. ≤ 700 bisphenol-F-epoxy resin, avg.mol.wght. ≤ 700	-	-	Not readily
1,6-bis(2,3-epoxypropoxy)	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis(pentabromophenyl) ether bisphenol-A-epoxy resinavg. mol.wght. ≤ 700 1,6-bis(2,3-epoxypropoxy) hexane	•		low low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

: Non-volatile. **Mobility** 

#### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable. **vPvB** : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

### 13.1 Waste treatment methods

### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

**Disposal considerations** 

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

### European waste catalogue (EWC)

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### **SECTION 13: Disposal considerations**

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation		
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances		

#### **Packaging**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** 

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

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### **SECTION 15: Regulatory information**

Ingredient name	Intrinsic property			Date of revision
Lead monoxide; lead oxide Bis(pentabromophenyl) ether; DecaBDE -	Toxic to reproduction PBT vPvB	Candidate	ED/169/2012 ED/169/2012 ED/169/2012	19/12/2012

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

**VOC for Ready-for-Use** 

**Mixture** 

: 2004/42/EC - IIA/j: 140g/I (2010). <= 2g/I VOC.

**Europe inventory** : All components are listed or exempted.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
diantimony trioxide lead compounds	Carc. 2, H351	-		Repr. 2, H361f (Fertility)

#### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply

to the use of this product at work.

**References**: EH40/2005 Workplace exposure limits

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by

Regulation (EU) No. 2016/918

### **International regulations**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Ingredient name	List name	Status
Octabromodiphenyl ether commercial mixtures typically containing hexabromodiphenylether, heptabromodiphenyl ether, octabromodiphenyl ether, nonabromodiphenyl ether and decabromodiphenyl ether; Adine 404	Rotterdam Convention on Prior Informed Consent (PIC)	Industrial

### **SECTION 15: Regulatory information**

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

**CN code** : 3209 90 00

### **International lists**

### **National inventory**

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Japan : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Turkey : Not determined.

United States : Not determined.

15.2 Chemical safety

assessment

: No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Expert judgment
Eye Irrit. 2, H319	Expert judgment
Skin Sens. 1, H317	Expert judgment
Carc. 2, H351	Expert judgment
STOT RE 2, H373 (inhalation)	Expert judgment
Aquatic Chronic 3, H412	Expert judgment

### Full text of H-phrases referred to in sections 2 and 3

Full text of abbreviated H statements

:	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H351	Suspected of causing cancer.
		May damage the unborn child. Suspected of damaging fertility.
		Causes damage to organs through prolonged or repeated exposure if inhaled.

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**Full text of classifications** 

[CLP/GHS]

### **SECTION 16: Other information**

H372

	H373 (inhalation) H410 H411 H412	repeated exposure.  May cause damage to organs through prolonged or repeated exposure if inhaled.  Very toxic to aquatic life with long lasting effects.  Toxic to aquatic life with long lasting effects.  Harmful to aquatic life with long lasting effects.
:	Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
	Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
	Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD -
	•	Category 1
	Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD -
		Category 2
	Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD -
	0 0 11054	Category 3
	Carc. 2, H351	CARCINOGENICITY - Category 2
	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
	Repr. 1A, H360Df	REPRODUCTIVE TOXICITY (Unborn child and Fertility) - Category 1A
	Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
	STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	(inhalation)	EXPOSURE (inhalation) - Category 1
	STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 1
	STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	(inhalation)	EXPOSURE (inhalation) - Category 2
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Causes damage to organs through prolonged or

Date of printing

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revision

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: 18/02/2019

Version : 1

### **Notice to reader**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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