

SAFETY DATA SHEET



SHIELD - SURFACE TOLERANT EPOXY Primer – Comp B

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010 According to Regulation (EC) No 1907/2006, Annex II

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

1.1. Product identifier

Product name SHIELD - SURFACE TOLERANT EPOXY Primer – Comp B
 Product number Epidac 2 HB 90-268
 Synonyms; trade names 11040 (Internal Ref)

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

Identified uses Paint/Curing Agent/Activator

1.3. Details of the supplier of the safety data sheet

Supplier SML Paints And Coatings
 The Downs,
 South Cerney,
 Cirencester,
 Gloucestershire,
 GL7 6DD
 01285 862132
 info@smlpaints.co.uk
 Contact person info@smlpaints.co.uk

1.4. Emergency telephone number

National emergency telephone number +44 (0) 1285 862132 08:00-18:00 MON-FRI

SECTION 2: Hazards identification

2.1. Classification of the substance or mixtureClassification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226
 Health hazards Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361f
 Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn;R20/21/22. Repr. Cat. 3;R62. C;R34. R43. R10.

Human health Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

Environmental This product may cause harm to the environment. See Section 12 Ecological Information.

Physicochemical See Section 7.2 Storage Class. See Section 5.2 Hazardous combustion products. See Section 10: Stability and reactivity

2.2. Label elements

SHIELD - SURFACE TOLERANT EPOXY Primer – Comp B

Pictogram



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H332 Harmful if inhaled.
 H361f Suspected of damaging fertility.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapour/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

BENZYL ALCOHOL, XYLENE , ISOPHORONEDIAMINE, 4,4'-
 ISOPROPYLIDENEDIPHENOL, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, 3-
 AMINOPROPYLDIMETHYLAMINE

Supplementary precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P233 Keep container tightly closed.
 P240 Ground/ bond container and receiving equipment.
 P241 Use explosion-proof electrical equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P310 Immediately call a POISON CENTER/ doctor.
 P312 Call a POISON CENTER/ doctor if you feel unwell. P321 Specific treatment (see medical advice on this label). P362+P364 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse.
 P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

BENZYL ALCOHOL		10-30%
CAS number: 100-51-6		EC number: 202-859-9
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R20/22	
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
XYLENE		10-30%
CAS number: 1330-20-7		EC number: 215-535-7
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 Xn;R20/21 Xi;R38	
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
ISOPHORONEDIAMINE		5-10%
CAS number: 2855-13-2		EC number: 220-666-8
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	C;R34 Xn;R21/22 R43 R52/53	
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
Aquatic Chronic 3 - H412		
4,4'-ISOPROPYLIDENEDIPHENOL		5-10%
CAS number: 80-05-7		EC number: 201-245-8
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Dam. 1 - H318	Repr. Cat. 3;R62 Xi;R37,R41 R43 R52	
Skin Sens. 1 - H317		
Repr. 2 - H361f		
STOT SE 3 - H335		

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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL		5-10%
CAS number: 90-72-2		EC number: 202-013-9
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	Xn;R22 Xi;R36/38	
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Skin Sens. 1B - H317		
Aquatic Chronic 3 - H412		
3-AMINOPROPYLDIMETHYLAMINE		5-10%
CAS number: 109-55-7		EC number: 203-680-9
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 C;R34 Xn;R22 R43	
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	The severity of the symptoms described will vary depending on the concentration and the length of exposure. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Show this Safety Data Sheet to the medical personnel.
Ingestion	Remove affected person from source of contamination. Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing. Use barrier creams to prevent skin contact. Remove contaminated clothing and rinse skin thoroughly with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. In case of insufficient ventilation, wear suitable respiratory equipment.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. See Section 11 for additional information on health hazards.
Inhalation	Harmful if inhaled Vapours may cause headache, fatigue, dizziness and nausea.

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Ingestion	Harmful if swallowed. May cause nausea, stomach pain and vomiting. May cause chemical burns in mouth and throat.
Skin contact	Prolonged skin contact may cause redness and irritation. May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	May cause severe eye irritation. Prolonged contact may cause redness and/or tearing.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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Notes:

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. If a fire or if heated, a pressure increase will occur and the container may burst with the risk of subsequent explosion. The product is flammable.
Hazardous combustion products	Nitric acid (HNO ₃). Ammonia or amines. Acrid smoke or fumes. Other pyrolysis products typical of burning an organic material. In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed. In the event of a fire and/or explosion, do not breathe fumes.

5.3. Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken without appropriate training or involving any personal risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Do not handle broken packages without protective equipment. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Take care as floors and other surfaces may become slippery. No smoking, sparks, flames or other sources of ignition near spillage.
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- For non-emergency personnel Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear suitable respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
- For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

- Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up No smoking, sparks, flames or other sources of ignition near spillage. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Small Spillages: Absorb small quantities with paper towels and evaporate in a safe place. Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. The accumulation of contaminated rags and application cloths may result in spontaneous combustion. This is particularly important in the case of products containing a high level of drying oils such as teak oil, linseed oil etc. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

6.4. Reference to other sections

- Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Usage precautions Avoid contact with skin and eyes. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. All handling should only take place in well-ventilated areas. Use non sparking handtools and explosion-proof electric equipment. Static electricity and formation of sparks must be prevented. Dust may form explosive mixture with air. Take precautionary measures against static discharges. Storage tanks and other containers must be earthed. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
- Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin.

7.2. Conditions for safe storage, including any incompatibilities

- Storage precautions Keep only in the original container. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising materials, heat and flames. Paints containing aluminium must not get in contact with water during storage. Exercise caution when opening to allow pressure release. Keep only in the original container in a cool, well-ventilated place. Avoid/separate from strong acids, alkalis, oxidising and reducing agents. Observe the label precautions. Store at temperatures between 5°C and 35°C (32 to 95°F). Containers which have been opened must be carefully resealed and kept upright to prevent leakage. See Section 7.2 Storage class.

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Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2. Restricted to professional users.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 441 mg/m³(Sk)

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

XYLENE (CAS: 1330-20-7)

DNEL

- Inhalation; Short term : 442 mg/m³

8.2. Exposure controls

Protective equipment



Note:

When spraying, the use of a suitable/approved respirator is advised.

Appropriate engineering controls

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

Eye/face protection

The following protection should be worn: Chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

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. Keep container tightly sealed when not in use.

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Notes:

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Light (or pale).
Odour	Amine-like
Odour threshold	Not determined.
pH	Not relevant.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	24°C CC (Closed cup).
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.8% Upper flammable/explosive limit: 7%
Other flammability	No specific test data are available.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	@ 20°C 0.95 - 1.10°C
Bulk density	Not determined.
Solubility(ies)	Soluble in the following materials: Organic solvents.
Partition coefficient	Not available.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	May form explosive mixtures with air.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.
Comments	May form explosive mixtures with air

9.2. Other information

Other information	Soluble in most organic solvents.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Acids. Alkalis. Oxidising materials.
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10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Further information on correct storage: refer to Section 7.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with strong oxidising agents. Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to conditions to heat or sources of ignition. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Avoid extremes of temperature and direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Nitric acid (HNO₃). Ammonia or amines. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of nitrogen. Acrid smoke or fumes. In case of fire and/or explosion, do not breaths fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,261.93168966

Acute toxicity - dermal

ATE dermal (mg/kg) 18,034.2651037

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 18.4189816

General information This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Harmful by inhalation. Irritating to respiratory system.

Ingestion Harmful if swallowed. Irritating. May cause nausea, stomach pain and vomiting.

Skin contact Harmful in contact with skin. Irritating to skin.

Eye contact Harmful in contact with eyes. Irritating to eyes.

Route of entry Ingestion. Skin and/or eye contact Oral

Additional Information: For further information, please refer to Sections 4 and 8 respectively.

Toxicological information on ingredients.

BENZYL ALCOHOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,230.0

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Species	Rat
ATE oral (mg/kg)	1,230.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0
Species	Rabbit
ATE dermal (mg/kg)	2,000.0
<u>Acute toxicity - inhalation</u>	
ATE inhalation (gases ppm)	4,500.0
ATE inhalation (vapours mg/l)	11.0
ATE inhalation (dusts/mists mg/l)	1.5
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes eye irritation
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Irritating to respiratory system.
<u>Skin sensitisation</u>	
Skin sensitisation	Irritating May cause sensitization by skin contact.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No specific test data are available.
Genotoxicity - in vivo	No specific test data are available.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No specific test data are available.
Reproductive toxicity - development	No information available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.

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General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Harmful if inhaled.
Ingestion	Harmful if swallowed.
Skin contact	Harmful in contact with skin. Irritating to skin. Eye
contact	Harmful in contact with eyes. Irritating to eyes.
Route of entry	Ingestion Inhalation Oral Skin and/or eye contact
Target organs	Central nervous system Liver

XYLENE

Toxicological effects	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. High vapour concentrations can cause headaches, dizziness and nausea.
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Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	4,300.0
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Species	Rat
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0
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Species	Rabbit
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ATE dermal (mg/kg)	2,000.0
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Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ vapours mg/l)	11.0
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Species	Rat
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ATE inhalation (vapours mg/l)	11.0
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Skin corrosion/irritation

Animal data	No information available.
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Human skin model test	Irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Causes eye irritation
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Respiratory sensitisation

Respiratory sensitisation	There is no evidence that the product can cause respiratory hypersensitivity.
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Skin sensitisation

Skin sensitisation	No information available.
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Germ cell mutagenicity

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Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	No information available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Central and/or peripheral nervous system damage.
Target organs	Central nervous system Liver Kidneys
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	Aspiration hazard if swallowed.
.	
General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Harmful by inhalation.
Ingestion	Irritating. May cause nausea, stomach pain and vomiting.
Skin contact	Harmful in contact with skin. Irritating to skin.
Eye contact	The product is irritating to eyes and skin.
Route of entry	Oral Skin and/or eye contact Inhalation Ingestion
Target organs	Central nervous system
Medical symptoms	Allergies. Irritation of eyes and mucous membranes. Headache. Fatigue. Dizziness.

ISOPHORONEDIAMINE

Toxicological effects	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. High vapour concentrations can cause headaches, dizziness and nausea.
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	1,030.0
Species	Rat
ATE oral (mg/kg)	1,030.0
<u>Serious eye damage/irritation</u>	

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Serious eye damage/irritation	Harmful in contact with eyes and skin. Corrosive to skin.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Irritating to respiratory system.
<u>Skin sensitisation</u>	
Skin sensitisation	May cause sensitization by skin contact.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No specific test data are available.
Genotoxicity - in vivo	No specific test data are available.
<u>Carcinogenicity</u>	
Carcinogenicity	No specific test data are available.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No specific test data are available.
Reproductive toxicity - development	No information available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No specific test data are available.
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.
General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.
Ingestion	Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	Harmful in contact with skin. May cause serious chemical burns to the skin. May cause sensitisation by skin contact.
Eye contact	Harmful in contact with eyes. May cause chemical eye burns.
Route of entry	Skin and/or eye contact Inhalation
Target organs	Eyes Central nervous system Skin
	<u>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</u>
<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	2,000.0

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Species	Rat
ATE oral (mg/kg)	2,000.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	1,260.0
Species	Rabbit
ATE dermal (mg/kg)	1,260.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC ₅₀ vapours mg/l)	5,000.0
Species	Rat
ATE inhalation (vapours mg/l)	5,000.0
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Harmful in contact with eyes and skin. Causes eye irritation
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Irritating to respiratory system.
<u>Skin sensitisation</u>	
Skin sensitisation	Irritating May cause sensitization by skin contact. May produce an allergic reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No specific test data are available.
Genotoxicity - in vivo	No specific test data are available.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No specific test data are available.
Reproductive toxicity - development	No information available.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.
<u>General information</u>	
General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

SHIELD - SURFACE TOLERANT EPOXY Primer – Comp B

Inhalation	Harmful by inhalation.
Ingestion	Harmful if swallowed.
Skin contact	Harmful in contact with skin. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	Harmful in contact with eyes.
Route of entry	Inhalation Ingestion Oral Skin and/or eye contact

3-AMINOPROPYLDIMETHYLAMINEAcute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,870.0

Species Rat

ATE oral (mg/kg) 1,870.0

Acute toxicity - inhalation

Acute toxicity inhalation 30.0
(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours 30.0
mg/l)

Serious eye damage/irritation

Serious eye 3 Causes eye irritation
damage/irritation

Respiratory sensitisation

Respiratory sensitisation Irritating to respiratory system.

Skin sensitisation

Skin sensitisation May cause sensitization by skin contact.

Germ cell mutagenicity

Genotoxicity - in vitro No data available.

Genotoxicity - in vivo No data available.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity - 3 No specific test data are available.
fertility

Reproductive toxicity - No information available.
development

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure No specific test data are available.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Harmful by inhalation.

Ingestion Harmful if swallowed.

Skin contact May cause sensitisation by skin contact.

Eye contact Harmful in contact with eyes. Burns can occur.

Route of entry Skin and/or eye contact Ingestion. Inhalation

Target organs Central nervous system Mucous membranes Respiratory system, lungs Eyes Skin

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity This product contains substances which are harmful to aquatic organisms. Do not discharge into drains, water courses or onto the ground.

Ecological information on ingredients.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Toxicity This product contains substances which are harmful to aquatic organisms. Do not discharge into drains, water courses or onto the ground.

Acute toxicity - fish , LC50 96 hours 420 mg/l (Fish) - refers to amines : ,

Acute toxicity - aquatic invertebrates , EC50 48 hours 24.1 mg/l (Daphnia) - refers to amines : ,

Acute toxicity - aquatic plants No information available.

Acute toxicity - microorganisms , ErC50 72 hours 6.8 mg/l (Algae) - refers to amines : NOEC 72 hours 0.5 mg/l (Algae) - refers to amines ,

Acute toxicity - terrestrial , Chronic EC10 2 hours static 46 mg/l (Bacteria) : ,

12.2. Persistence and degradability

Persistence and degradability Solvent will evaporate, residue will not readily biodegrade. There are no data on the degradability of this product.

Biodegradation No data available.

Ecological information on ingredients.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Persistence and degradability The product is not readily biodegradable.

Biodegradation Not readily biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is insoluble in water. Mobile liquid, solvent will evaporate leaving a semi-solid mass.

Ecological information on ingredients.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. This material and its container must be disposed of in a safe way. The generation of waste should be minimised or avoided wherever possible. The company encourages the recycle, recovery and reuse of materials, wherever possible.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Reuse or recycle products wherever possible. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

General To avoid the risk of spillage, always store and transport in a secure, upright position. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

UN No. (ADN) 1263

14.2. UN proper shipping name

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Proper shipping name (ADR/RID) PAINT

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Proper shipping name (ADN) PAINT

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3YE

Hazard Identification Number (ADR/RID) 33

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

SHIELD - SURFACE TOLERANT EPOXY Primer – Comp B

National regulations	<p>Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972. Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste) Regulations 1980 (as amended). Control of Substances Hazardous to Health Regulations 2002 (as amended).</p>
EU legislation	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010.</p>
Guidance	<p>Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.</p>

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	Product to be used in industrial and/or professional applications.
Issued by	BOD
Revision date	02/03/2015
Revision	0
SDS number	20623
Risk phrases in full	<p>R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R20/22 Harmful by inhalation and if swallowed. R21/22 Harmful in contact with skin and if swallowed. R22 Harmful if swallowed. R34 Causes burns. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R52 Harmful to aquatic organisms. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility.</p>

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Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful 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. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H412 Harmful to aquatic life with long lasting effects.
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The product should not be used for the 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. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.