

MATERIAL SAFETY DATA SHEET

ULTRAKOTE ULTRASHIELD EPOXY Part B

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier	Epoxy Warehouse Pty Ltd T/A Sydney Industrial Coatings
Address	6 Giffard Street, Silverwater NSW 2128
Telephone	02 9648 3019
Synonym(s)	UltraShield Epoxy Part B US16-100EP-B US4-100EP-B
Manufacturer	ULTRAKOTE 1800 037 699 ultrakote.com.au
SDS Date	1 st January 2024

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Aspiration hazard: Cat. 1
Flammable liquids: Cat. 4
Acute toxicity: Cat. 4 (oral)
Acute toxicity: Cat. 4 (dermal)
Skin corrosion/irritation: Cat. 1B
Serious eye damage/eye irritation: Cat. 1
Skin sensitization: Cat. 1
Reproductive toxicity: Cat. Additional category for effects on or via lactation.
Reproductive toxicity: Cat. 2 (fertility)
Reproductive toxicity: Cat. 2 (unborn child)
Hazardous to the aquatic environment - acute: Cat. 2
Hazardous to the aquatic environment - chronic: Cat. 1

Label elements and precautionary statement:

Pictogram



Signal Word

DANGER

Hazard Statement:

H227	Combustible liquid.
H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H362	May cause harm to breast-fed children.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H314	Causes severe skin burns and eye damage.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection
P273	Avoid release to the environment.
P260	Do not breathe dust or mist.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.
P263	Avoid contact during pregnancy and while nursing

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P391	Collect spillage.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use water spray, dry powder, foam or carbon dioxide for extinction.

Precautionary Statements (Storage):

P405	Store locked up.
P403+P235	Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common chemical name	CAS No.	Content (W/W)	Hazard classification
Benzyl alcohol	100-51-6	≥ 10% to < 15%	Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 4 (Inhalation - mist) Eye Dam./Irrit.: Cat. 2A
2-piperazin-1-ylethanol	103-76-4	≥ 1% to < 3%	Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 2 Eye Dam./Irrit.: Cat. 1
2,2'-iminodi(ethylamine)	111-40-0	≥ 0.2% to < 1%	Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 2 (Inhalation - mist) Acute Tox.: Cat. 4 (dermal) Skin Corr./Irrit.: Cat. 1B Eye Dam./Irrit.: Cat. 1 Skin Sens.: Cat. 1B STOT SE: Cat. 3 (irr. to respiratory syst.) Aquatic Acute: Cat. 3
2-(2-aminoethylamino)ethanol	111-41-1	≥ 0.3% to < 5%	Acute Tox.: Cat. 5 (oral) Skin Corr./Irrit.: Cat. 1B

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			Eye Dam./Irrit.: Cat. 1 Skin Sens.: Cat. 1B Repr.: Cat. Add. cat. lact. Repr.: Cat. 2 (fertility) Repr.: Cat. 1B (unborn child) STOT SE: Cat. 3 (irr. to respiratory syst.) Aquatic Acute: Cat. 3
2-piperazin-1-ylethylamine	140-31-8	≥ 1% to < 7%	Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 3 (dermal) Skin Corr./Irrit.: Cat. 1B Eye Dam./Irrit.: Cat. 1 Skin Sens.: Cat. 1B Aquatic Acute: Cat. 3 Aquatic Chronic: Cat. 3
alpha-(2-Aminomethylethyl)- omega-(2 aminomethylethoxy)- poly(oxy(methyl-1,2-ethanediy))	9046-10-0	≥ 25% to ≤ 100%	
4-nonylphenol, branched	84852-15-3	≥ 25% to < 50%	Acute Tox.: Cat. 4 (oral) Acute Tox.: Cat. 5 (dermal) Skin Corr./Irrit.: Cat. 1B Eye Dam./Irrit.: Cat. 1 Repr.: Cat. 2 (fertility) Repr.: Cat. 2 (unborn child) Aquatic Acute: Cat. 1 Aquatic Chronic: Cat. 1 M-factor acute: 10 M-factor chronic: 10

4. FIRST AID MEASURES

General advice	First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing
Eye	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Inhalation	If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
Skin	After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
Ingestion	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting. For further advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
Notes to physician	Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Foam, water spray, dry powder, carbon dioxide
Unsuitable extinguishing media	Water jet

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Specific hazards carbon dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours

Advice for firefighters Fire fighters should wear complete protective clothing including self-contained breathing apparatus

Further information:

The degree of risk is governed by the burning substance and the fire conditions. If exposed to fire, keep containers cool by spraying with water. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Do not breathe vapour/aerosol/spray mists. Wear eye/face protection. If exposed to high vapour concentration, leave area immediately

Personal protection equipment Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice

In case of emergency A self-contained breathing apparatus and suitable protective clothing should be

Environmental precautions Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater

Methods and material for containment and cleaning up **For small amounts:** Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed. **For large amounts:** Pump off product.

Reference to other sections See sections 8 and 13

7. STORAGE AND HANDLING

Storage **Suitable materials for containers:** tinned carbon steel (Tinplate), High density polyethylene (HDPE), Carbon steel (Iron)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight.

Store protected against freezing

Precautions for safe handling Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. Ensure adequate ventilation. No special measures necessary provided product is used correctly.

Protection against fire and explosion: The product is not an oxidizer, not self-combustible and not explosive.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Components with occupational exposure limits

No occupational exposure limits known.

Personal protective equipment

Respiratory protection Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

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Hand protection

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Avoid exposure - obtain special instructions before use. Handle in accordance with good building materials hygiene and safety practice. Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).



9. PHYSICAL AND CHEMICAL PROPERTIES

Form	LIQUID	pH	NOT APPLICABLE
Colour	LIGHT YELLOW	Explosion hazard	NOT EXPLOSIVE
Odour	CHARACTERISTIC	Fire promoting properties	NOT FIRE-PROPAGATING
Boiling Point	> 150 °C	Vapour pressure	NOT APPLICABLE
Flash Point	> 70 °C	Density	0.95 - 1.05 g/cm ³ (25 °C)
Ignition Temperature	NOT DETERMINED	Viscosity, dynamic	0.5 - 1.5 mPa.s (25 °C)
Solubility in water	INSOLUBLE	Thermal decomposition	No decomposition if stored and handled as prescribed/indicated.

10. STABILITY AND REACTIVITY

Conditions to avoid	See SDS section 7 - Handling and storage
Thermal decomposition	No decomposition if stored and handled as prescribed/indicated
Substances to avoid	zinc, aluminium, oxidizing agents, strong alkalies, acids
Corrosion to metals	Corrosive effect on metals
Hazardous reactions	The product is stable if stored and handled as prescribed/indicated
Decomposition Products	No hazardous decomposition products if stored and handled as prescribed/indicated

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

This inorganic pigment in general is considered to be practically nontoxic.

Acute toxicity	Of moderate toxicity after single ingestion. Of moderate toxicity after short-term skin contact.
Irritation	Corrosive! Damages skin and eyes.
Respiratory/Skin sensitization	Sensitization after skin contact possible.
Germ cell mutagenicity	The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met
Carcinogenicity	Based on the ingredients there is no suspicion of a carcinogenic effect in humans. Based on available Data, the classification criteria are not met.
Reproductive toxicity	The results of animal studies suggest a fertility impairing effect.
Developmental toxicity	Indications of possible developmental toxicity/teratogenicity were seen in animal studies. May cause harm to children via breast-feeding.
Repeated dose toxicity and Specific target organ toxicity (repeated exposure)	No reliable data was available concerning repeated dose toxicity. Based on available Data, the classification criteria are not met
Aspiration hazard	May also damage the lung at swallowing (aspiration hazard).
Other relevant toxicity information	The product has not been tested. The statement has been derived from the properties of the individual components.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. Aquatic invertebrates: EC50 (48 h) 23 mg/l, Daphnia magna
Mobility	No data available.
Bioaccumulation potential	Discharge into the environment must be avoided.
Additional information	Do not allow to enter soil, waterways or waste water channels. Do not discharge substance/product into sewer system. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned

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14. TRANSPORT INFORMATION

Domestic transport

Packing group	III
ID number	UN 2735
Transport hazard class(es)	8
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains POLYAMINE MODIFIED)

Further information

Hazchem Code	2X
IERG Number	36

Sea transport

IMDG

Packing group	III
ID number	UN 2735
Transport hazard class(es)	8
Marine pollutant	NO
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains POLYAMINE MODIFIED)

Air transport

IATA/ICAO

Packing group	III
ID number	UN 2735
Transport hazard class(es)	8
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (contains POLYAMINE MODIFIED)

15. REGULATORY INFORMATION

Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5

Registration status

AICS, AU released / listed

16. OTHER INFORMATION

Additional Information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.