

MATERIAL SAFETY DATA SHEET

ULTRABARRIER Part B

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier	ULTRAKOTE 1800 037 699 ultrakote.com.au
Address	6 Giffard Street, Silverwater NSW 2128
Telephone	02 9648 3019
Synonym(s)	ULTRABARRIER Part B
Manufacturer	ALKA COATINGS 1300 515 150 alkacoatings.com.au
SDS Date	1 st September 2023

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Serious eye damage/eye irritation	Category 2A
Sensitisation, respiratory	Category 1

Label elements and precautionary statement:

Pictogram



Signal Word: **DANGER**

Hazard Statement:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements (Prevention):

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling, wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing and eye protection or face protection

Precautionary Statements (Response):

P302+P352	IF ON SKIN: wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P342 + P311	IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician

Precautionary Statements (Storage):

NONE

Precautionary Statements (Disposal):

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Class: 9

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	CAS No.	Content (W/W)	EC Number	Full Chemical Name
Modified phenolic amine		> 50%		

4. FIRST AID MEASURES

General Advice	In all cases of doubt, or when symptoms persist, seek medical attention. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. If skin irritation or rash occurs, get medical advice/attention.
Eye	Remove contact lenses. Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Inhalation	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing labored and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.
Skin	For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water. Seek medical advice.
Ingestion	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. Contact The Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Extinguishing Media	Suitable Use dry chemical powder, carbon dioxide or alcohol-resistant foam. Unsuitable Water
Advice for firefighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus Further information: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path to fire. Keep containers cool with water spray. On burning, may emit toxic fumes, including oxides of carbon and nitrogen. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapor or products of combustion. Do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations. The product is not in the flammable range but will burn. Carbon monoxide possible where incomplete combustion occurs.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency

For non-emergency personnel

Maintain good ventilation, use appropriate respiratory protective equipment. Avoid skin and eye contact. Use proper personal protective equipment as indicated in Section 8. Keep people away from and upwind of spill/leak.

For emergency responders

Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated.

Environmental precautions

Avoid direct discharge to sewers and surface waters. Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up

For minor spills:

Remove all ignition sources. Clean up all spills immediately.

Avoid breathing vapors and contact with skin and eyes. Control personal contact by using protective equipment. Contain and absorb spill with sand, earth, inert material, or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.

For major spills:

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

Reference to other sections

See sections 8 and 13

7. STORAGE AND HANDLING

Handling temperatures

The maximum temperature recommended for pumping or handling liquid product is 60°C.

Storage

Conditions for safe storage, including any incompatibilities

Store at room temperature. Keep away from ignition sources. Avoid contact with incompatible materials. Protect containers against physical damage and check regularly for leaks. Store in accordance with all current regulations and standards. Keep container tightly closed when not in use. Follow all precautionary information on container label, product information and safety data sheet.

This material has classified as **Dangerous Good Class 9** as per criteria of the Australian Dangerous Code and must be stored in accordance with the relevant regulations.

Precautions for safe handling

Protective measures

Persons with epoxy allergy should not work with this product. Follow special provisions related to work with this material. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storing and handling recommendations. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. DO NOT allow clothing wet with material to stay in contact with skin.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Control parameters

Additional exposure limits under the conditions of use: Not available

DNEL/DMEL and PNEC-Values:

Workers - Hazard via inhalation route	Systemic effects-Long term exposure	N/A
Workers - Hazard via inhalation route	Systemic effects-Acute/short term exposure	N/A
Workers - Hazard via inhalation route	Local effects-Long term exposure	N/A
Workers - Hazard via inhalation route	Local effects-Acute/short term exposure	N/A
Workers - Hazard via dermal route	Systemic effects-Long term exposure	N/A
Workers - Hazard via dermal route	Systemic effects-Acute/short term exposure	N/A
Workers - Hazard via dermal route	Local effects-Long term exposure	N/A
Workers - Hazard via dermal route	Local effects-Acute/short term exposure	N/A
General Population - Hazard via inhalation route	Systemic effects-Long term exposure	N/A
General Population - Hazard via inhalation route	Systemic effects-Acute/short term exposure	N/A
General Population - Hazard via inhalation route	Local effects-Long term exposure	N/A
General Population - Hazard via inhalation route	Local effects-Acute/short term exposure	N/A
General Population - Hazard via dermal route	Systemic effects-Long term exposure	N/A
General Population - Hazard via dermal route	Systemic effects-Acute/short term exposure	N/A
General Population - Hazard via dermal route	Local effects-Long term exposure	N/A
General Population - Hazard via dermal route	Local effects-Acute/short term exposure	N/A
General Population - Hazard via oral route	Systemic effects-Long term exposure	N/A
General Population - Hazard via oral route	Systemic effects-Acute/short term exposure	N/A
Hazard for aquatic organisms	Freshwater	N/A
Hazard for aquatic organisms	Marine water	N/A
Hazard for aquatic organisms	STP	N/A
Hazard for aquatic organisms	Sediment (freshwater)	N/A
Hazard for aquatic organisms	Sediment (marine water)	N/A
Hazard for terrestrial organisms	Soil	N/A
Hazard for predators	Secondary poisoning	N/A

Exposure controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentration of chemicals. They are not a measure of relative toxicity. If the direction for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers routinely, potentially exposed during product manufacture.

Individual protection measures

Engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory protection

Use a NIOSH-approved organic vapor/acid gas respirator (OVAG) with dust, mist and fume filters to reduce potential for inhalation exposure if use conditions generate vapor, mist or aerosol and adequate ventilation (e.g., outdoor or well-ventilated area) is not available. Where exposure necessitates a higher level of protection use a NIOSH-approved, positive pressure, pressure demand, air-supplied respirator. Avoid discharge into the environment. If inhalation risk exists wear organic vapor/ particular respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

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PREMIUM GRADE PROTECTIVE COATINGS

Skin protection

Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather. Long sleeved clothing may be used to minimize skin contact.

Wear fire/flare resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Safety showers, with quick opening valves which stay open and eye wash fountains or other means of washing the eyes with a gentle flow of cool to tepid tap water should be readily available in all areas where this material is handled or stored.

General safety and hygiene measures

OVERALL, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR. Wear overalls, chemical safety glasses/goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapor/ particular respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Do not inhale gases/vapours/aerosols. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Always wash hands before smoking, eating, drinking or using toilet. Wash contaminated clothing and other protective equipment before storing or re-using. 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. 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. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Ensure that eyewash stations and safety showers are close to the workstation location



9. PHYSICAL AND CHEMICAL PROPERTIES

These values are for 100% concentration. Please review both tables and refer to Section 3 for concentration percentages.

BPA Liquid Epoxy Resin

Physical state	LIQUID
Colour	YELLOWISH LIQUID
Odour	SLIGHTLY AMINE ODOUR
Melting point/freezing point	NO DATA AVAILABLE
Boiling/initial boiling point and range	>205.7°C
Flammability	FLAMMABLE
Lower and upper explosion/flammability limit	NO DATA AVAILABLE
Flash point	>70°C (CLOSED CUP)
Auto-ignition temperature	NO DATA AVAILABLE
Decomposition temperature	NO DATA AVAILABLE
pH	10.5
Evaporation rate	NO DATA AVAILABLE
Water solubility (g/l)	INSOLUBLE IN WATER
n-Octanol/Water (log Po/w)	NO DATA AVAILABLE
Vapour pressure	2.8 mmHg at 24°C
Density and/or relative density	0.97-0.99 kg/L at 25°C
Relative vapour density	NO DATA AVAILABLE

Bulk density (kg/m ³)	NO DATA AVAILABLE
Molecular weight	NO DATA AVAILABLE
Molecular formula	NO DATA AVAILABLE
Viscosity (BH model CPS/25°C)	1500-2500 m
Explosive properties	NO DATA AVAILABLE
Oxidising properties	NO DATA AVAILABLE
Fat solubility (solvent-oil to be specified) etc	NO DATA AVAILABLE
Surface tension	NO DATA AVAILABLE
Dissociation constant in water (pKa):	NO DATA AVAILABLE
Oxidation-reduction Potential	NO DATA AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity	Reacts with strong acids and strong alkalis and strong oxidants.
Chemical stability	The substance is stable under normal storage and handling conditions.
Conditions to avoid	Avoid contact with incompatible materials and open flame.
Thermal decomposition	no data available
Substances to avoid	no data available
Incompatible materials	Strong oxidizers, strong acids, strong alkalis, and reactive organometallic compounds.
Hazardous reactions	Under normal conditions, no hazardous reactions will occur.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (Ethylenediamine)	LD50(Oral, Rat): 866 mg/kg bw LD50(Dermal, Rabbit): 560 mg/kg LC50(Inhalation/4h, Rat): 14.7 mg/l
Skin corrosion/Irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Carcinogenicity	no data available
Respiratory/Skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	no data available
Reproductive toxicity	no data available
Developmental toxicity	no data available
Aspiration hazard	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Endocrine disrupting properties	The substance is not identified as having endocrine disrupting properties.
Specific target organ toxicity (STOT) single exposure	not classified
Specific target organ toxicity (STOT) (repeated exposure)	not classified

12. ECOLOGICAL INFORMATION

Toxicity

Chemical Name	Acute toxicity	Time	Species	Method	Evaluation	Remarks
Modified phenolic amine	LC50	640 mg/l	96h	Fish	EU Method C. 1	N/A
	EC50	16.7 mg/l	48h	Daphniamagna	EU Method C.2	N/A
	EC50	645 mg/l	72h	Algae	EU Method C.3	N/A

Chemical Name	Chronic (long-term) toxicity	Value
Ethylenediamine (107- 15-3)	NOEC(Fish)	> 10 mg/l
	NOEC (Daphnia magna)	0. 16 mg/l
	NOEC (Algae/aquatic plants)	3.2 mg/l

Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
Results of PBT and vPvB assessment:	no data available
Endocrine disrupting properties	The substance is not identified as having endocrine disrupting properties.
Other adverse effects	no data available
Additional information	no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

13.2 Waste from residues/unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

13.3 Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

Domestic transport

Packing group	III
ID number	UN 2922
Transport hazard class(es)	8
Proper shipping name	Corrosive liquids, toxic, n.o.s.

Further information

Hazchem Code	2X
IERG Number	No data available

Sea transport

IMDG	
Packing group	III
ID number	UN 2922
Transport hazard class(es)	8
Marine pollutant	YES
Proper shipping name	Corrosive liquids, toxic, n.o.s.

Air transport

IATA/ICAO	
Packing group	III
ID number	UN 3082
Transport hazard class(es)	8
Proper shipping name	Corrosive liquids, toxic, n.o.s.

15. REGULATORY INFORMATION

Relevant information regarding authorization	Not applicable
Relevant information regarding restriction	Not applicable
Other EU regulations	Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.
Other National regulations	Not applicable

16. OTHER INFORMATION

Reason for Revision	Information updates of all sections to comply with Code of Practice Safe Work Australia.
Abbreviations	ADG: Australian Code for the Transport of Dangerous Goods by Road and Rail CAS Number: Chemical Abstracts Number HMIS: Hazardous Materials Identification System ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: the time-weighted average airborne concentration over an eight-hour working day, for five-day working week over an entire working life. STEL: short term exposure limit, the average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour workday. LC50: Lethal Concentration 50% LD50: Lethal Dose 50% EC50: Effective Concentration 50%
Key literature references and sources for data	ECHA Registered substances data
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. For more information, please visit www.ultrakote.com.au, www.alkacoatings.com.au or contact Alka Coatings technical team on 1300 515 150
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