

MATERIAL SAFETY DATA SHEET

ULTRABARRIER Part A

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 A
Manufacturer	ALKA COATINGS 1300 515 150 alkacoatings.com.au
SDS Date	1 st September 2023

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 1A, 1B, 1C, 2
Skin sensitization	Category 1
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A, 1B
Hazardous to the aquatic environment – chronic	Category 2

Label elements and precautionary statement:

Pictogram



Signal Word(s): **WARNING, DANGER**

Hazard Statement:

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350	May cause cancer
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention):

P201	Obtain special instructions before use
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.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and eye protection or face protection
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage. Hazardous to the aquatic environment

Precautionary Statements (Response):

P321	Specific treatment (see ... on this label).
P391	Collect spillage. Hazardous to the aquatic environment
P302+P352	IF ON SKIN: wash with plenty of soap and water.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P337+P313	IF eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.
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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
BPA Liquid Epoxy Resin	25068-38-6	≥ 30% to < 70%	500-033-5	Bisphenol a diglycidyl ether resin,der331
BPF Liquid Epoxy Resin	9003-36-5	≥ 1% to < 10%	500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

4. FIRST AID MEASURES

Advice to physicians	If skin sensitization has developed and a causal relationship has been confirmed, further exposure should not be allowed.
Eye	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

Suitable extinguishing media	Use dry chemical powder, carbon dioxide or alcohol-resistant foam.
Unsuitable extinguishing media	Do not use water jet. Use foam or water fog. Keep containers cool by spraying with water if exposed to a fire.
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. The product is not in the flammable range but will burn. Carbon monoxide possible where incomplete combustion occurs. 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	Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Ensure adequate ventilation.
Personal protection equipment	Use personal protective equipment. Wear chemical impermeable gloves. Handle in accordance with good building materials hygiene and safety practice
In case of emergency	Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.
Methods and material for containment and cleaning up	For minor spills: Extinguish naked flames. And avoid sparks. Use spark-proof tools and explosion-proof equipment. Wear protective equipment to prevent skin and eye contamination. Wipe out with absorbent (clean rag or paper towel) or absorb with sand, sawdust or earth. Keep the chemical in suitable and closed containers for disposal and arrange for disposal by a competent contractor. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. For major spills: Shut off all possible source of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapors. Work up wind or increase ventilation. Contain – prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark-free shovel. Arrange disposal by competent contractor, in accordance with local regulations. If contamination of sewers or waterways has occurred advise local 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	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuff. Store away from incompatible materials described in section 10. Store away from source of heat or ignition. Keep container closed when not in use - check regularly for leaks. Should be stored in conditions so that moisture is excluded, preferably in the original containers kept tightly closed. Under these conditions and temperature ranging from 2°C to 43°C, the storage life should be within two years. 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	Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam. Wash with solvent - incinerate concentrated solvent washings-preferably crush and scrap drums. Alternatively send them for reconditioning.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

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.
Respiratory protection	If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator. If inhalation risk exists wear organic vapor/ particular respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Skin protection	Wear fire/flamm 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).

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	pellets
Colour	Gardner: ≤3
Odour	no data available
Melting point/freezing point	Ca. -16 °C. Remarks: The measurement was carried out on this substance using thermal analysis - a differential scanning calorimeter (DSC). The melting point is a glass transition temperature (Tg).
Boiling/initial boiling point and range	400.8°C at 760 mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	> 264 - ≤ 268 °C. Atm. press.: Ca. 102 kPa.
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	In water: Ca. 3 mg/L. Temperature: 20 °C. pH: Ca. 7. Remarks: Slightly soluble (0.1-100 mg/L).
Partition coefficient n-octanol / water	log Pow = > 2. Temperature: 25 °C.
Vapour pressure	Ca. 0 Pa. Temperature: ≥ 19.85°C.
Density and/or relative density	Ca. 1.160 g/L. Temperature: 25 °C.
Relative vapour density	no data available
Particle characteristics	no data available

BPF Liquid Epoxy Resin

Physical state	no data available
Colour	no data available
Odour	no data available
Melting point/freezing point	no data available

Boiling/initial boiling point and range	181.8°C at 760mmHg
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	72.5°C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol / water	no data available
Vapour pressure	no data available
Density and/or relative density	no data available
Relative vapour density	no data available
Particle characteristics	no data available

10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	no data available
Conditions to avoid	no data available
Thermal decomposition	no data available
Substances to avoid	no data available
Incompatible materials	no data available
Hazardous reactions	no data available
Hazardous Decomposition Products	no data available

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity	Oral: LD50 - rat (female) - > 2 000 mg/kg bw. Inhalation: no data available Dermal: no data available
Carcinogenicity	no data available
Respiratory/Skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Developmental toxicity	no data available
Aspiration hazard	no data available
Specific target organ toxicity (STOT) single exposure	no data available
Specific target organ toxicity (STOT) (repeated exposure)	no data available

12. ECOLOGICAL INFORMATION

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Ecotoxicity	Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - ca. 2 mg/L - 48 h. Toxicity to algae: EC50 - Scenedesmus capricornutum - ca. 9 mg/L - 48 h. Toxicity to microorganisms: no data available
Mobility in soil	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Additional information	Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated Packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. TRANSPORT INFORMATION

Domestic transport

Packing group	III
ID number	UN 3082
Transport hazard class(es)	9, EHS
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M ≤ 700)

Further information

Hazchem Code	3Z
IERG Number	47

Sea transport

IMDG

Packing group	III
ID number	UN 3082
Transport hazard class(es)	9, EHS
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M ≤ 700)

Air transport

IATA/ICAO

Packing group	III
ID number	UN 3082
Transport hazard class(es)	9, EHS
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains BISPHENOL-A-EPICHLORHYDRIN RESINS M ≤ 700)

15. REGULATORY INFORMATION

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Common Name	CAS No.	EC Number	Full Chemical Name
BPA Liquid Epoxy Resin	25068-38-6	500-033-5	Bisphenol a diglycidyl ether resin,der331
BPF Liquid Epoxy Resin	9003-36-5	500-006-8	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
European Inventory of Existing Commercial Chemical Substances (EINECS)			Exempted; Polymer.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
PICCS			Listed.
Vietnam National Chemical Inventory			Listed.
IECSC			Listed.
Korea Existing Chemicals List (KECL)			Listed.

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%

References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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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Manufacturer Notes

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