

MATERIAL SAFETY DATA SHEET

ULTRAKOTE ULTRASHIELD EPOXY Part A

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity, oral	Category 4
Skin corrosion/irritation	Category 2
Sensitization, skin	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A, 1B
Hazardous to the aquatic environment, long-term hazard	Category 2
Specific Target Organ Toxicity (Repeated Exposure)	Category 1

Label elements and precautionary statement:

Pictogram



Signal Words

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
H341	Suspected of causing genetic defects
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention):

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/gas/mist/vapours.

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P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash contaminated body parts thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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
P281	Use personal protective equipment as required.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see ... on this label).
P362	Take off contaminated clothing and wash before reuse
P363	Avoid contact during pregnancy/while nursing.
P391	Collect spillage.
P301+P312	IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312+ P314	If you feel unwell, contact the Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P311+P313	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	IF SKIN irritation or rash occurs: Get medical advice/attention.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local, regional, national and international regulations Poisons Schedule (Aust): S6
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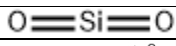
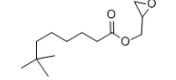
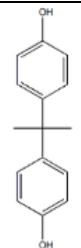
DANGEROUS GOODS CLASSIFICATION

Miscellaneous Dangerous Goods Class 9

UN No. 3082

NAME and description ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common chemical name	CAS No.	Content (W/W)	EINECS	
Quartz (SiO ₂)	14808-60-7	≥ 3% to <50%	215-684-8	
Neodecanoic acid, oxiranylmethyl ester	26761-45-5	≥ 0.3% to < 7%	247-979-2	
Reaction product: bisphenol-A (epichlorhydrin)-Epoxy resin (number average molecular weight ≤ 700)	25068-38-6	≥ 25% to < 50%	500-033-5	

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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	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. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
Skin	For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering or irritation occurs seek medical assistance. A component of this material can be absorbed through the skin with resultant toxic effects. 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. If vomiting happens give further water. For further advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
PPE for First aiders	Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapor/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. 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. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Medical attention	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Alcohol resistance foam is the preferred fire-fighting medium. If material is involved in the fire use alcohol resistance foam, standard foam or Dry agent (Dry Chemical Powder, CO ₂)
Unsuitable extinguishing media	Water jet
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 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

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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 minor spills: Extinguish naked flames. And avoid sparks. 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. Collect in drums, and arrange for disposal by a competent contractor, in accordance with local regulations. For major spills: Shut off all possible source of ignition. Clear area of all unprotected personal. 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 advice local emergency services.
Reference to other sections	See sections 8 and 13

Dangerous Goods – Initial Emergency Response Guide No: 14

7. STORAGE AND HANDLING

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.
Precautions for safe handling	No smoking. Avoid skin and eye contact and inhalation of vapor, mist or aerosols.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Components with occupational exposure limits

Barium Sulfate, 7727-43-7;

ACGIH: TWA 5 mg/m³
OSHA: TWA 15 mg/m³; TWA 5 mg/m³
NIOSH: TWA 10 mg/m³; TWA 5 mg/m³

The value is for particulate matter containing no asbestos and <1% crystalline silica.

Quartz (SiO₂), 14808-60-7;

ACGIH: TWA 0.025 mg/m³
OSHA: TWA 50 µg/m³
NIOSH: IDLH 50 mg/m³; TWA 0.05 mg/m³

¹ TWA: Time weighted average concentration

² STEL: Short term exposure limit

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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.

Biological Limit Values As per the “National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)” the ingredients in this material do not have a Biological Limit Allocated.

Engineering controls Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with local exhaust ventilation or while wearing appropriate respirator. Ventilation equipment should be explosion proof. Vapor heavier than air-prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapor may have collected. Keep containers closed when not in use

Respiratory protection Use with adequate ventilation. If inhalation risk exists wear organic vapor/ particular respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Hand protection Chemical resistant protective gloves (EN 374)
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 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



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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	LIQUID	pH	NOT APPLICABLE
Colour	PRODUCT SPECIFIC	Explosion hazard	NOT EXPLOSIVE
Odour	CHARACTERISTIC	Fire promoting properties	NOT FIRE-PROPAGATING
Boiling Point	> 100 °C	Vapour Pressure	0.30 - 0.67 hPa (20 °C)
Flash Point	> 100 °C	Density	1.26 - 1.55 g/cm ³ (25 °C)
Ignition Temperature	NOT APPLICABLE	Thermal decomposition	No decomposition if stored and handled as prescribed/indicated.
Solubility in water	Emulsifiable (25 °C)		

10. STABILITY AND REACTIVITY

Reactivity	No reactivity hazards are known for the material.
Chemical stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperature, Source of heat and ignition, open flames.
Thermal decomposition	No decomposition if stored and handled as prescribed/indicated
Substances to avoid	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Incompatible materials	Incompatible with oxidizing agents.
Hazardous reactions	The product is stable if stored and handled as prescribed/indicated
Hazardous Decomposition Products	Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	Virtually nontoxic after a single ingestion. Based on available Data, the classification criteria are not met
Carcinogenicity	Eye contact causes irritation. Skin contact causes irritation
Respiratory/Skin sensitization	Sensitization after skin contact possible
Germ cell mutagenicity	Mutagenic properties can not be excluded on the basis of experimental data
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 chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met
Developmental toxicity	The chemical structure does not suggest a specific alert for such an effect. Based on available Data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Remarks: Based on available Data, the classification criteria are not met
Repeated dose toxicity and Specific target organ toxicity (repeated exposure)	Repeated exposure to small quantities may affect certain organs. This product contains crystalline silica (quartz). Prolonged or repeated inhalation of respirable crystalline silica may result in silicosis.
Aspiration hazard	No aspiration hazard expected.
Other relevant toxicity information	The product has not been tested. The statement has been derived from the properties of the individual components.

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12. ECOLOGICAL INFORMATION

Ecotoxicity	Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Mobility	The substance will not evaporate into the atmosphere from the water surface. Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.
Persistence and degradability	The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.
Acute aquatic hazard	This material has been classified as a Category Acute 1 Hazard. Acute toxicity estimate (based on ingredients) :<1 mg/L
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

Observe national and local legal requirements.

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

Packaging:

If possible, material and container should be recycled. If material and container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

14. TRANSPORT INFORMATION

Domestic transport

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

¹ IERG: Initial Emergency Response Guide

² IATA: International Air Transport Association

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15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persist Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous waste)
• Waste from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish.
• International convention for the prevention of pollution from ships (MARPOL)
• Annex III- Harmful substances carried in package form

This material/constituent(s) is covered by the following requirements:

• All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

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.

Registration status

AICS, AU released / 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 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.
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.
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