MATERIAL SAFETY DATASHEET
BERRAKURE AC

Revision Date 18.10.2023 (V1.4)

1. IDENTIFICATION

Product Name: BERRAKURE AC

Company Details:
BERRA Construction Products
(ABN 87 008 503 946)
PO BOX 494 FYSHWICK
ACT, 2609 AUSTRALIA
Telephone: +612 5105 1426
Emergency Telephone: 131 126

Recommended Use: Curing compound for concrete, construction chemical

2. HAZARD IDENTIFICATION

This material is NOT hazardous according to health criteria of Safe Work Australia.

Pictogram:

Hazard Classification: None allocated
Hazard Statement:

- H305 May be harmful if swallowed.

Precautionary Statements (Prevention):

- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from source of ignition – No smoking.
- P210 Wear protective clothing, gloves, eye/face protection and suitable aspirator as required.
- P280 Avoid release into the environment.

Precautionary Statements (Response):

- P101 If medical advice is needed, have product container or label on hand.
- P310 Immediately call a POISON CENTRE or doctor physician.
- P331 DO NOT induce vomiting.
- P370+378 In case of fire: Use water fog, foam or dry agents for extinction.

Precautionary Statements (Storage):

- P403+235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Precautionary Statement (Disposal):

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations

Poisons Schedule: None Allocated

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 may contribute to the overall hazards of the substance or mixture.

DANGEROUS GOODS CLASSIFICATION
Not classified as a 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"

3. CHEMICAL COMPOSITION

Chemical Entity:	CAS No.	Proportion
Styrene/methyl methacrylate/methacrylic acid/2-EH acrylate Ammonium hydroxide	28377-44-8 1336-21-6	=60% >= 0.1 - < 0.6%
Other ingredients determined to be non-hazardous		Balance
		100%

4. FIRST-AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126)

If inhaled:
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 laboured 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 medical advice.

On skin contact:
If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical attention.

On contact with eyes:
If in eyes wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

On ingestion:
Rinse mouth with water immediately. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs give further water. Seek medical attention.

PPE for First Aiders:
Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS 1715 and AS 1716. Available information suggests that gloves made from nitrile should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make the 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

Note to physician:
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Hazchem Code:
None allocated

Specific Hazards:
No data available

Suitable extinguishing media:
Foam, water spray, dry powder, carbon dioxide.

Unsuitable extinguishing media for safety reasons:
Water jet.

Unusual fire and explosion hazards:
Material can splatter above 100°C/212°F. Dried product can burn.

Special protective equipment:
On burning may emit toxic fumes. Wear a self-contained breathing apparatus.

Further information:
The degree of risk is governed by the burning substance and the fire conditions.
Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Small Spills:
Wear protective equipment to prevent skin and eye contamination. Wipe us with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

Large Spills:
Slippery when wet. Avoid accidents, clean up immediately. Wear protective equipment to prevent skins and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain – prevent runoff into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination or sewers or waterways occurs advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling:
Avoid skin and eye contact and inhalation of vapours mists or aerosols.

Storage:
KEEP FROM FREEZING. Product stability may be affected. Store in original container in a cool, dry, well ventilated place, out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use. Check regularly for leaks.

Storage Temperature:
1-49°C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National occupational exposure limits:
No value assigned for this specific material by Safe Work Australia.

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 measures:
Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may be collected. Keep containers closed when not in use.

PERSONAL PROTECTIVE EQUIPMENT

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

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 (0.4mm), chloroprene rubber (0.5mm), butyl rubber (0.7mm) and other. Manufacturer’s directions for use should be observed because of great diversity of types.

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 suits (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. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building s hygiene and safety practice. 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 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
Colour:	Milky White
Odour:	Ammonia Odour
pH Value:	6.5-7.5
Boiling Point:	100ºC
Flash Point:	Non-Combustible
Flammability:	Non-Combustible
Lower Explosion Limit:	Not Applicable
Upper Explosion Limit:	Not Applicable
Explosion Hazard:	Not Explosive
Fire Promoting:	Not Fire Propagating
Vapour Pressure:	2,266.4808000 Pa @ 20°C
Density:	1.00 -1.20g/cm³ (20ºC)
Bulk Density:	Not Applicable
Soluability:	Soluble

10. STABILITY & REACTIVITY

Reactivity: No reactivity hazards are known for this material

Chemical stability: This material is thermally stable when stored and used as directed. Hazardous reactions: No known hazardous reactions. Product will not undergo polymerization.

Conditions to avoid: No data available. Incompatible materials: There are no known materials which are incompatible with this product.

Hazardous decomposition products: Thermal decomposition may yield styrene and acrylic.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Acute oral toxicity:
LD50, Rat, >5,000 mg/kg
Acute dermal toxicity:
LD50, Rabbit, >5,000 mg/kg
Inhalation:
Product test data not available. Refer to component data.
Skin contact:
May cause transient irritation.
Corrosion/Irritancy:
Eye: This material has been classified as not corrosive or irritating to the eyes.
Skin: This material has been classified as not corrosive or irritating to the skin.
Sensitisation:
Product test data not available. Refer to component data.
Special target organ toxicity (single exposure):
Product test data not available. Refer to component data.
Aspiration Hazard:
Product test data not available. Refer to component data.

CHRONIC TOXICITY

Mutagenicity:
Product test data not available. Refer to component data.
Carcinogenicity:
Product test data not available. Refer to component data.
Reproductive toxicity (including via lactation):
Product test data not available. Refer to component data.
Teratogenicity:
Product test data not available. Refer to component data.
Specific target organ toxicity (repeated exposure):
Product test data not available. Refer to component data.
Additional Information:
No data is available for this material. The information shown is based on profiles of compositionally similar materials.

COMPONENTS INFLUENCING TOXICOLOGY

Ammonium Hydroxide

Acute inhalation toxicology:
The LC50 has not been determined.
Sensitization:
For skin sensitization.
No relevant data found.
For respiratory sensitization.
No relevant data found.
Specific target organ systemic toxicity (single exposure):
Evaluation of available data suggests that this material is not an STOT-SE toxicant.
Specific target organ systemic toxicity (repeated exposure):
No relevant data found.
Carcinogenicity:
Did not cause cancer in laboratory animals.
Teratogenicity:
No relevant data found.
Reproductive toxicity:
No relevant data found.
Mutagenicity:
In vitro genetic toxicity studies were negative.
Animal genetic toxicity studies were negative.
Aspiration Hazard:
Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage of lung injury.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.
Ecotoxicity

Acute aquatic hazard (Ammonium hydroxide):

Acute toxicity to fish.
Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).
May increase pH of aquatic systems to >pH10 which may be toxic to aquatic organisms.
LC50, Lepomis macrochirus (Bluegill sunfish) 96 hour, 0.87 mg/l
LC50, Pimephales promelas (fathead minnow), 96 Hour, 1.2 mg/L

Persistence and degradability (Ammonium hydroxide):

Biodegradability:
Biodegradation may occur under aerobic conditions (in the presence of oxygen). Biodegradation rate may increase in soil and/or water with acclimation.

Theoretical oxygen demand:
0.76 MG/MG

Bioaccumulative Potential (Ammonium hydroxide):

Bioaccumulation:
No bioconcentration is expected because of the relatively high water solubility.

Mobility in water (Ammonium hydroxide):
Potential for mobility in soil is very high. (Koc between 0 and 50).

Results of PBT and vPvB assessment:
This substance contains no components to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects (Ammonium hydroxide):
This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Observe national and local legal regulations
Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:
Contaminated packaging should be emptied as fast as possible; then it can be passed on for recycling after thoroughly cleaned.

14. TRANSPORT INFORMATION

Domestic transport: Not classified as a dangerous good under transport regulations
Sea transport: Not classified as a dangerous good under transport regulations IMDG
Air transport: Not classified as a dangerous good under transport regulations IATA/ICAO

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:
Montreal Protocol (Ozone Depleting Substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:
All the constituent(s) of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are exempt.
If other regulatory information applies that is not already provided elsewhere in the safety data sheet, then it is described in this subsection.

16. OTHER 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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the Safety Data Sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Data sheets are updated regularly. Please ensure you have a current copy.

This Safety Data Sheet in compiled in accordance with the Occupation Health and Safety Regulations 2017 S.R. No. 22/2017 Part 401 – Hazardous Substances