

## SAFETY DATA SHEET

### 1. Product and Company Identification

**Company Name:** Sierra Aust Pty Ltd  
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Queensland 4034  
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**Product Name:** Concrete Armour RD  
**Product Code:** 4712  
**Intended Use:** Cement sealant  
**Chemical Nature:** Mixture

### 2. Hazards Identification

**Hazardous Chemical** according to classification by Safe Work Australia  
**Dangerous Goods** according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

**GHS Classification:** Flammable Liquid Category 2  
Aspiration Hazard Category 1  
Toxic to reproduction Category 2  
Skin Corrosion/Irritation Cat 2  
Chronic Aquatic Toxicity Category 2  
Specific Target Organ Toxicity (single exposure) Category 3  
Specific Target Organ Toxicity (repeated exposure) Category 3



**GHS Signal Word:** DANGER

**Hazard Statement:** H225 Highly flammable liquid and vapour, H304 May be fatal if swallowed and enters airways  
H315 Causes skin irritation H336 May cause drowsiness or dizziness  
H373 May cause damage to organs through prolonged or repeated exposure  
H361 Suspected of damaging the unborn child  
H411 Toxic to aquatic life with long lasting effects

#### Precautionary Statements:

**General:** P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

**Preventative:** P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion proof electrical/ventilation/lighting equipment  
P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P260 Do not breathe mist/vapours/spray  
P261 Avoid breathing mist/vapours/spray  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/eye protection/face protection  
P281 Use personal protective equipment as required.

**Response:** P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician  
P302+ P352 IF ON SKIN: Wash with plenty of soap and water  
P303 + P361 + P353 IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse.  
Rinse skin with water /shower  
P308 + P313 If exposed or concerned: Get medical advice/attention  
P304 + P340 If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P331 Do NOT induce vomiting.  
 P312 Call a POISON CENTRE or doctor/physician if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use foam/water spray/fog for extinction.  
 P391 Collect spillage.  
 PP403 + P233 Store in a well ventilated place. Keep container tightly closed.  
 P405 + P235 Store locked up. Keep cool.  
 P501 Dispose of contents/container in accordance with local regulations.

**Storage:**

**Disposal:**

### 3. Composition / Information on Ingredients

#### Ingredients Names and Proportions

Chemical Entity	Cas Number	Proportion(%)
Solvent naphtha (petroleum)	64742-82-1	100
Light aliphatic		
With components:		
n-Hexane	110-54-3	10 - 30
Ethylbenzene	100-41-4	<10

### 4. First aid Measures

In case of eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes. If irritation persists transport to nearest medical facility for additional treatment.

In case of skin contact: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available

If Ingested: If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

If Inhaled: Keep victim calm and remove to fresh air if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.

#### Symptoms caused by exposure

Inhalation: Breathing of high vapour concentrations may cause central nervous system depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continuous inhalation may result in unconsciousness and death.

Skin: May include burning sensation and or a dried/cracked appearance.

Eyes: May include burning sensation, redness, swelling and or blurred vision.

Ingestion: May include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath and/or fever.

#### Medical attention and special treatment

Treat symptomatically

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Foam, water spray or fog, dry chemical powder or carbon dioxide. Do not use water in a jet

#### Specific Hazards arising from the Chemical:

Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface of water. Vapour is heavier than air, can spread along ground and distant ignition is possible.

#### Special protective equipment for fire fighters:

Wear full protective clothing and self contained breathing apparatus. Hazchem code 3YE

### 6. Accidental Release Measures

**Personal Precautions:** Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove

all sources of ignition in the surrounding area. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment.

**Environmental Precautions:** Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

**Methods of cleanup:** For small spills (<1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely. For larger spills (>1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.

## 7. Handling and Storage

**Precautions for safe handling:** Highly flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment. Flameproof equipment necessary in area where chemical is being used. Vapours may accumulate in low or confined areas.

**Conditions for safe storage:** Store in a well ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near aerosols, strong oxidants and corrosives.

## 8. Exposure Controls and Personal Protection

**Exposure Control Measures:** From National Occupational Health & Safety Commission (NOHSC) Worksafe Australia  
n-Hexane: 72mg/m<sup>3</sup> (20ppm) TWA (8hr)  
Shell X55: 450mg/m<sup>3</sup> TWA (8hr)

**Biological Monitoring:** No biological limit allocated.

**Engineering Controls:** Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

### Individual Protection Measures:

Eye and face protection: Wear safety goggles.

Skin protection: Use solvent resistant gloves, nitrile for longer term protection of PVC and neoprene for incidental splashes.

Respiratory protection: If work practices do not maintain airborne levels below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point >65°C). respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

Thermal Hazards: Not applicable.

## 9. Physical and Chemical Properties

Appearance:	Colourless Liquid	Density (g/ml@15°C):	0.67 – 0.755
Odour:	Parafinic sweet	Solubility (kg/m <sup>3</sup> ):	Not miscible with water
Initial Boil point range:	50 - 135°C	Auto ignition temp (°C)	280 (ASTM E-659)
Flash point:	-30°C (Abel)	Vapour Density:	>1
Flammability:	Highly flammable	(air=1@15°C)	
Vapour pressure:	Typical 34.5	Upper/lower flammability:	1.0 – 7.5
(kPa@20°C)		or explosive limits (%)	

## 10. Stability and Reactivity

**Reactivity:** Stable under normal conditions of use  
**Chemical Stability:** Stable under normal conditions of use  
**Possible Hazardous reactions:** Stable under normal conditions of use  
**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources  
**Incompatible materials:** Strong oxidizing agents.  
**Hazardous Decomposition products:** Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids, gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

## 11. Toxicological Information

Acute toxicity:	Expected to be of low toxicity - LD50 Oral (rat) > 2000 mg/kg
Skin corrosion/irritation:	Irritating to skin. Prolonged contact may cause defatting of skin which can lead to dermatitis.
Serious eye damage/irritation:	Expected to be non-irritating to eyes.
Respiratory or skin sensitisation:	Not expected to be a sensitiser.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity:	Causes foetus toxicity in animals at doses which are maternally toxic. Affects reproductive system in animals at doses which produces other toxic affects (n-Hexane).
Specific Target Organ Toxicity (STOT) – single exposure:	Not expected to be a respiratory irritant.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Central nervous system: repeated exposure affects the nervous system.
Aspiration hazard:	Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## 12. Ecological Information

### Ecotoxicity

#### Acute toxicity:

Fish –	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
Aquatic invertebrate –	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
Algae –	Expected to be toxic: $1 < LC/EC/IC50 \leq 10\text{mg/l}$
Microorganisms –	Expected to be harmful: $1 < LC/EC/IC50 \leq 10\text{mg/l}$

#### Chronic toxicity:

Fish –	Data not available
Aquatic invertebrate –	Data not available

Algae –	Data not available
Microorganisms –	Data not available

**Persistence and degradability**

Readily biodegradable. Oxidises by photo-chemical reactions in air.

**Bioaccumulative potential**

Has the potential to bioaccumulate.

**Mobility in soil**

Floats on water. Absorbs on soil.

**13 Disposal Considerations**

Ensure waste disposal conforms to local waste disposal regulations.

**14. Transport Information**

<b>UN number:</b>	1268
<b>Proper shipping name:</b>	Petroleum Distillates, N.O.S. (solvent naphtha)
<b>Australian Dangerous Goods class:</b>	3
<b>Australian Dangerous Goods packing group:</b>	II
<b>Hazchem code:</b>	3YE

**15. Regulatory Information**

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP), Poisons Schedule:	5
Australian Inventory of Chemical Substances (AICS):	Listed
Dangerous Goods Initial Emergency Response Guide (SAA/SNZ HB76):	14

**16. Other Information**

**This SDS contains only safety related information. For other information see product literature.**

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Sierra (Aust) Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.