

1. IDENTIFICATION

Supplier: Know-How Concrete Technologies
ABN: 15 086 008 068
Address: Unit 1-708 Boundary Road, Coopers Plains, QLD, 4108, Australia
Telephone: (07) 3274 1000
National Poisons Information Centre (For Emergency): (+61) 131 126 (24 hours)
Fax: (07) 3274 1006
Web Page: www.knowhowconcrete.com.au

Product Name: DeepSeal Armourglaze
Other Names: Methacrylate Hydrocarbon Solvent
Chemical Family: Aromatic Hydrocarbon Solvent
Recommended Use: Glaze for cement based products

2. HAZARDS IDENTIFICATION

Health Hazard Classification: This product is classified as hazardous according to criteria of NOHSC, Australia. Classified as Dangerous Goods according to the Australian Code of Transport.

Hazard Category: 3y: Harmful.

Risk Phrases: R 10: Flammable.
 R 20/21: Harmful by inhalation and in contact with skin.
 R 37/38: Irritating to respiratory system and skin.
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment.

Safety Phrases: S 1: Keep out of reach of children.
 S 16: Keep away from sources of ignition.
 S 24/25: Avoid contact with skin and eyes.
 S 29: Do not empty into drains.
 S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
 S 38 In case of insufficient ventilation, wear suitable respiratory equipment.
 S 60: This material and its container must be disposed of as hazardous waste.

Dangerous Goods Classification: 3

Poison Schedule: 6

Pictogram:



Pictogram Description: Flammable

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Xylene	1330-20-7	30 < 60
Ethylbenzene	100-41-4	1-< 20
Solvent naphtha (petroleum) light aromatic	6472-95-6	10-<25
Ingredients determined not to be hazardous		Balance

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 131 126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Wash out mouth with water. Seek immediate medical attention.

Eye Contact

If in eyes, hold eyelids apart and Flush eyes continuously with running water until advised to stop by the poisons information centre or doctor, or for at least 15 minutes. If irritation develops seek medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations

Inhalation

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Eye wash fountains and general washing facility should be easily accessible in the immediate work area.

Medical Attention

Treat according to symptoms. Poisons Information Centre in each Australian State Capital city can provide additional assistance for scheduled poisons.

5. FIRE FIGHTING MEASURES

Shut off product that may 'Fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Carbon dioxide, dry chemical or foam. Alcohol resistant foam is preferred, if not available normal foam can be used.

Hazardous from combustion products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Precautions for fire fighters and special protective equipment

Full protective clothing to prevent exposure to vapours of fumes and self-contained breathing apparatus operated in positive pressure mode. Water spray may be used to cool down heat-exposed containers.

Specific Hazards

Flammable liquid and vapour. Vapour / air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion.

Hazchem Code

3Y

6. ACCIDENTAL RELEASE MEASURES**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill, place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with the local regulations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for safe storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

Incompatible materials

Natural rubbers, neoprene, butyl and, or nitrile rubbers.

8. EXPOSURE CONTROLS : PERSONAL PROTECTION**National Exposure Standards**

Ethyl Benzene - Time weighted average concentration (TWA) for this product is: 434 mg/m³ (100 ppm). Short-term exposure limit (STEL) is: 543 mg/m³ (125 ppm)

Xylene - Time weighted average concentration (TWA) for this product is: 350 mg/m³ (80 ppm). Short-term exposure limit (STEL) is: 655 mg/m³ (150 ppm)

Solvent Naphtha (Petroleum), light aromatic- Time weighted average concentration (TWA) for this product is: 5 mg/m³.

Biological Limit Values

Xylene - BEI: Biological Exposure Index – 1.5 g/g Determinant: Methylhippuric acids. Specimen: creatinine in urine at end of shift.

Ethylbenzene - BEI: Biological Exposure Index – 0.7g/g Determinant: Sim of mandelic acid and phenylglyoxylic acid. Specimen: creatinine in urine at end of shift end of work week.

Engineering Controls: Ventilation

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers breathing zone. A flame proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Personal Protective Equipment

Respiratory Protection: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, selection, Use and Maintenance of Respiratory protective Devices; and AS/NZS 1716, Respiratory protective Devices, in order to make any necessary changes for individual circumstance.

Eye Protection: Safety glasses with side shields, full face shield or chemical goggles as appropriate should be used when handling this product. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform to Australia/New Zealand Standards AS/NZS 1337 – Eye protectors for Industrial Applications.

Hand Protection: Wear gloves of impervious material such as laminated film, nitrile rubber. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: occupational protective gloves – Selection use and maintenance.

Skin/Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant apron is to be worn when handling large quantities this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Form	Liquid
Appearance	Clear viscous liquid
Odour	Aromatic Hydrocarbon odour
Boiling Point/Range	137°C - 143°C (xylene)
Flash Point	27°C (Xylene)
Vapour Density (Air = 1)	3.7 (Xylene)
Vapour Pressure @ 38°C	05.2 kPa (38°C) (Xylene)
Explosive Limits	Not Available
Auto ignition Temperature	465°C
Viscosity	Not Available
Solubility with Water	Insoluble with water
Specific Gravity	0.91-0.93
Evaporation Rate	0.7 (xylene)
Flammable Limits – Lower	1.1% xylene
Flammable Limits – Upper	7.7% xylene
Flammability	Flammable Liquid

10. STABILITY AND REACTIVITY

Stability and Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical stability

Stable under normal conditions of storage and handling.

Conditions to avoid

Sources of heat and ignition, open flames. Precautions against static electricity discharges.

Incompatible Materials

Strong oxidising agents. Halogens

Hazardous decomposition products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

Hazardous reactions

Reacts with incompatible materials

Hazardous Polymerisation

Will not occur.

11. ECOLOGICAL INFORMATION

Eco toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence/ degradability

Not Available.

Mobility

Not Available

Bio accumulative Potential

Not Available

Environmental Protection

Prevent this material entering waterways, drains and sewers

12. TOXICOLOGICAL INFORMATION**Acute Effects****Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion may cause CNS depression with symptoms including drowsiness, dizziness, fatigue, confusion and possible unconsciousness. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause pulmonary injury.

Eye Contact

May be irritating to eyes. The symptoms may include redness, itching and tearing.

Skin Contact

Harmful in contact with skin. Irritating to skin. Skin contact will cause redness itching and swelling repeated exposure may cause skin dryness or cracking.

Inhalation

Harmful if inhaled, Irritating to respiratory system. Inhalation of product vapours can cause irritation of the nose, throat and respiratory.

Carcinogenicity

Ethylbenzene is listed as a group 2B: Possible carcinogenic to humans according to International Agency for Research on Cancer (IARC)

Toxicological Information

No toxicity data available for this material

13. DISPOSAL CONSIDERATIONS**Disposal Methods**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers.

Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste.

Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as appropriate.

Do not incinerate closed containers. Advise flammable nature.

14. TRANSPORTATION INFORMATION**General**

This material is a Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Road and Rail Transport	
UN No.	1866
Proper Shipping Name	Resin Solution
DG Class	3
Sub. Risk	None
Pack Group	III
Hazchem	3Y
IERG	14

Dangerous Goods Segregation

This Product is classed as Dangerous Goods Class 3, packing group III. Please consult the Australian Dangerous Goods Code for Transport by Road and Rail information

15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National occupational Health and Safety Commission (NOHSC), Australia
SUSMP	Poisons Schedule number S6 allocated
AICS	All ingredients presented on AICS
Hazardous Category	Harmful, Irritant, Dangerous for the environment, Flammable.

16. OTHER INFORMATION**Acronyms and Comments**

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.
AICS	Australian Inventory of Chemical Substances.
CAS Number	Chemical abstracts Service Registry Number.
HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
IERG	Dangerous Goods Initial Emergency Response Guide (HB 76:2010 Standards Australia)
Safe Work Australia	Safe Work Australia was formerly the Australian Safety and Compensation Council, which included the National Occupational Health and Safety Commission (NOHSC)
SDS	Safety Data Sheet
STEL	Exposed standard –short term exposure limit, a 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
TWA	Exposed standard – time –weighted average, the average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five-day working week.
UN Number	United Nations Number
Issue Date	18 August 2016
Supersedes Issue Date	March 2015
Revision Information	New format
Contact Point	Regulatory Affairs Manager
Contact Number	(07) 3274 1000
Note	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
Disclaimer	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Know-How Concrete Technologies cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. This SDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.