



MATERIAL SAFETY DATA SHEET

ARMOURCURE - SOLVENTBASED

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

- 1.1. PRODUCT IDENTIFIER:
PRODUCT NAME: ARMOURCURE SOLVENTBASED
- 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE/MIXTURE AND USES ADVISED AGAINST: Concrete curing agent
- 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATASHEET:
COMPANY ADDRESS: Leviat Ltd,
President Way, President Park,
Sheffield, S4 7UR
- 1.4. EMERGENCY TELEPHONE NUMBER: Tel: +44 (0) 114 275 5224 (office hours only)
TEL:

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 CLASSIFICATION OF THE SUBSTANCE/MIXTURE:
CLASSIFICATION UNDER CLP: Skin irrit. 2: H315; Acute Tox. 4: H312+332; Flam. Liq. 3: H226.
- MOST IMPORTANT ADVERSE EFFECTS: Flammable liquid and vapour. Harmful in contact with skin or if inhaled. Causes skin irritation.
- 2.2 LABEL ELEMENTS:
HAZARD STATEMENTS: H226: Flammable liquid and vapour.
H312+332: Harmful in contact with skin or if inhaled.
H315: Causes skin irritation.
- PRECAUTIONARY STATEMENTS: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241: Use explosion-proof electrical, ventilation, lighting equipment.
P260: Do not breathe.
P280: Wear eye protection (goggles), protective gloves, protective clothing, face protection.
P302+352: If on skin, wash with plenty of water.
P361+364: Take off immediately all contaminated clothing and wash it before re-use.
- SIGNAL WORDS: Warning.
- HAZARD PICTOGRAMS: GHS07: Exclamation mark. 
- GHS02: Flame. 

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2.3 OTHER HAZARDS:

OTHER HAZARDS:

In use, may form a flammable/explosive vapour-air mixture.

PBT:

This substance is not identified as a PBT/vPvB substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

HAZARDOUS INGREDIENTS:

XYLENE				
EINECS	CAS	PBT/WEL	CLP CLASSIFICATION	PERCENT
215-535-7	1330-20-7		Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	70-90%

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

SKIN CONTACT:

Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. Bathe eye with running water for 15 minutes. Consult a doctor.

EYE CONTACT:

INGESTION:

Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

INHALATION:

Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SKIN CONTACT:

There may be irritation and redness of the site of contact.

EYE CONTACT:

There may be irritation and redness. The eyes may water profusely.

INGESTION:

There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

INHALATION:

There may be irritation of the throat with a feeling of tightness in the chest.

DELAYED/IMMEDIATE EFFECTS:

Immediate effects can be expected after short-term exposure.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL

ATTENTION AND SPECIAL TREATMENT:

Not applicable.

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SECTION 5: FIRE-FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers.
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
EXPOSURE HAZARDS: Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.
- 5.3 ADVICE FOR FIRE FIGHTERS: Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
PERSONAL PRECAUTIONS: Refer to section 8 of the MSDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from point of danger. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
- 6.2 ENVIRONMENTAL PRECAUTIONS: Do not discharge in to drains or rivers. Contain the spillage using bunding.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
CLEAN UP PROCEDURES: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use explosion-proof rated equipment during clean-up procedure.
- 6.4 REFERENCES TO OTHER SECTIONS: Refer to section 8.

SECTION 7: HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:
HANDLING REQUIREMENTS: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools. Only use equipment that cannot be a source of ignition.

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7.2 CONDITIONS FOR SAFE STORAGE

INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS:

Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent build-up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment cannot be a source of ignition. The floor of the storage room must be impermeable to prevent the escape of liquids.

SUITABLE PACKAGING:

Must only be kept in original packaging

7.3 SPECIFIC END USES:

Concrete curing agent.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

HAZARDOUS INGREDIENTS:

Xylene

WORKPLACE EXPOSURE LIMITS:

RESPIRABLE DUST:

STATE	8 HOUR TWA	15 MIN STEL	8 HOUR TWA	15 MIN STEL
UK	220 mg/m ³	441 mg/m ³	-	-

DNEL/PNEC:

No data available.

8.2 EXPOSURE CONTROLS

ENGINEERING MEASURES:

Ensure there is sufficient ventilation in the area. Ensure electrical equipment and lighting are not a source of ignition. The floor of the storage room must be impermeable to prevent the escape of liquids.

RESPIRATORY PROTECTION:

Self-contained breathing apparatus must be available in case of emergency.

HAND PROTECTION:

Impermeable protective gloves.

EYE PROTECTION:

Safety goggles. Ensure eye bath is to hand.

SKIN PROTECTION:

Impermeable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

STATE:

Liquid.

COLOUR:

Colourless.

ODOUR:

Characteristic odour.

VISCOSITY:

Non-viscous.

FLASH POINT °C:

23-60.

9.2 OTHER INFORMATION:

No data available.

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SECTION 10: STABILITY AND REACTIVITY

- 10.1 REACTIVITY: Stable under recommended transport or storage conditions.
- 10.2 CHEMICAL STABILITY: Stable under normal conditions.
Stable at room temperature.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:
HAZARDOUS REACTIONS: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
- 10.4 CONDITIONS TO AVOID: Heat. Hot surfaces. Flames. Sources of ignition.
Direct sunlight.
- 10.5 INCOMPATIBLE MATERIALS: Strong oxidising agents. Strong acids.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS: In combustion emits toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:
HAZARDOUS INGREDIENTS:

XYLENE				
ORL	MUS	LD50	2119	mg/kg
ORL	RAT	LD50	4300	mg/kg
SCU	RAT	LD50	1700	mg/kg

RELEVANT HAZARDS FOR PRODUCT:

HAZARD	ROUTE	BASIS
Acute toxicity (ac. tox. 4)	INH DRM	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated

11.2 SYMPTOMS/ROUTES OF EXPOSURE

- SKIN CONTACT: There may be irritation and redness at the site of contact.
- EYE CONTACT: There may be irritation and redness. The eyes may water profusely.
- INGESTION: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
- INHALATION: There may be irritation of the throat with a feeling of tightness in the chest.
- DELAYED/IMMEDIATE EFFECTS: Immediate effects can be expected after short-term exposure.

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SECTION 12: ECOLOGICAL INFORMATION

12.1	TOXICITY:	
	ECOTOXICITY VALUES:	No data available.
12.2	PERSISTENCE AND DEGRADABILITY:	Biodegradable.
12.3	BIOACCUMULATIVE POTENTIAL:	No bioaccumulation potential.
12.4	MOBILITY IN SOIL:	Readily absorbed in to soil.
12.5	RESULTS OF PBT AND vPvB ASSESSMENT:	
	PBT IDENTIFICATION:	This substance is not identified as a PBT/vPvB substance.
12.6	OTHER ADVERSE EFFECTS:	Negligible ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	WASTE TREATMENT METHODS:	
	DISPOSAL OPERATIONS:	Transfer to a suitable container and arrange for collection by a specialised disposal company.
	DISPOSAL OF PACKAGING:	Arrange for collection by a specialised disposal company. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

14.1	UN NUMBER:	UN1866.
14.2	UN PROPER SHIPPING NAME:	Resin Solution.
14.3	TRANSPORT HAZARD CLASS (ES):	Transport class 3.
14.4	PACKING GROUP:	III.
14.5	ENVIRONMENTAL HAZARDS:	
	ENVIRONMENTALLY HAZARDOUS:	No.
	MARINE POLLUTANT:	No.
14.6	SPECIAL PRECAUTIONS FOR USER	
	SPECIAL PRECAUTIONS:	No special precautions.
	TUNNEL CODE:	D/E.
	TRANSPORT CATEGORY:	3.

SECTION 15: REGULATORY INFORMATION

15.1	SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE/MIXTURE:	No data available.
15.2	CHEMICAL SAFETY ASSESSMENT:	A chemical safety assessment has not been carried out for the substance or mixture by the supplier.

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SECTION 16: OTHER INFORMATION

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| 16.1 | OTHER INFORMATION: | This safety sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.*Indicates text in the MSDS which has changed since the last revision. |
| 16.2 | PHRASES USED IN s.2 AND s.3: | H226: Flammable liquid and vapour.
H312: Harmful in contact with skin.
H312+332: Harmful in contact with skin or if inhaled.
H315: Causes skin irritation.
H332: Harmful if inhaled. |
| 16.3 | LEGAL DISCLAIMER: | The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. |