



SAFETY DATA SHEET

SOLVENT 181

Issued: JAN 2025

Hazardous according to criteria of Safe Work Australia

1 PRODUCT & COMPANY UNDERTAKING IDENTIFICATION

Product Name: **SOLVENT 181**
Major Recommended Use: Thinners and cleanup solvent for Australian Slate-Crete concrete sealers.
Company: Australian Slate Crete Supplies PTY LTD
ABN: 35 051 984 993
Address: 12 Yale Drive, Epping, Victoria, 3076
Telephone Number: 61 (03) 9408 7722
Email: sales@australianslatecrete.com.au
Web site: www.australianslatecrete.com.au

2 HAZARDS IDENTIFICATION

GHS Classification: GHS02 Flammable liquid (Category 3)
GHS07 Acute toxicity, Inhalation (Category 4)
Acute toxicity, Dermal (Category 4)
Skin corrosion/irritation (Category 2)
GHS08 Specific target organ toxicity (single exposure) (Category 3) Narcotic effects
Aspiration hazard (Category 1)
GHS09 Chronic Hazard to the aquatic environment (Category 2)



GHS02



GHS07



GHS08



GHS09

Signal word: DANGER

Hazard statements: H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H312+332 Harmful in contact with skin or if inhaled
H315 Causes skin irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources – NO SMOKING
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing fumes/gas/mist/vapours/spray
P264 Wash hands, face and all exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response P101 If medical advice is needed, have product container or label at hand.
P301+310 IF SWALLOWED: Immediately call a POISON CENTRE on 13 11 26 or doctor
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of soapy water.

	P304+340+312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE on 13 11 26 or doctor if you feel unwell.
	P331	Do NOT induce vomiting.
	P362	Take off contaminated clothing and wash before reuse.
	P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage	P403+235 P405	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	P501	Dispose of contents/ container to an approved waste disposal plant.
Risk Statements:	R10 R20/21 R38 R48/20 R65	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful: May cause lung damage if swallowed.
Safety Statements:	S36/37/39 S62	Wear suitable protective clothing, gloves and eye/face protection. If swallowed, do not induce vomiting; seek medical advice immediately and show this SDS, container or label.
Hazard Codes:	Xn (harmful), Xi (irritant), N (dangerous for the environment)	
Poisons Schedule:	S6	
ADG CLASS:	Flammable Liquid Class 3 PGIII UN 1268 PETROLEUM DISTILLATES, N.O.S.	
Signs and Symptoms of Exposure (Acute effects):		
Swallowed:	Ingestion may cause: severe gastrointestinal irritation, headache, nausea, vomiting. Small amount of liquid aspirated into respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.	
Eye:	Contact with eyes can cause mild irritation and discomfort, and may cause conjunctivitis and corneal oedema when absorbed into the tissue of the eye from the atmosphere. Corneal oedema may give rise to a perception of blue haze or fog around lights. This effect is transient and has no known residual effect.	
Skin:	Irritating to skin. Absorption through skin may occur resulting in harmful effects or illness. Prolonged and repeated contact may result in skin sensitisation and dermatitis due to de fattening.	
Inhaled:	Prolonged inhalation may result in respiratory irritation, dizziness, nausea, and loss of consciousness. Aspiration into the lungs may cause chemical pneumonitis which can be fatal.	
Chronic:	Repeated and/or prolonged exposures may result in: adverse skin effects (de fattening, rash or allergic reaction/sensitisation), adverse eye effects (conjunctivitis) and temporary liver or kidney damage.	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion	Classification
Xylene	1330-20-7	> 60%	Xn; R20/21-R38
Solvent naphtha (petroleum), light aromatic	64742-95-6	10-30%	Xn, Xi; R65
Description	Flammable Liquid		

4 FIRST AID MEASURES

Swallowed:	If swallowed, do NOT induce vomiting, Give a glass of water and contact a doctor or Poisons Information Centre. Telephone 13 11 26 .
Eye:	Immediately hold eye open and irrigate with water for 15 minutes. If persistent irritation occurs, obtain medical attention and see a Doctor.
Skin:	Remove any contaminated clothing and product. Wash skin thoroughly with mild soap/water. Seek medical advice if ill effect or irritation develops.
Inhaled:	Using proper respiratory protection, immediately remove the affected victim from exposure to fresh air. If breathing is laboured and patient is cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
First Aid Facilities:	Eyewash fountains and safety showers should be available for emergency use.
Advice to Doctor:	Dermatitis may result from prolonged or repeated exposure.

Aspiration into the lungs may cause chemical pneumonitis. Causes central nervous system depression. Severe exposure may cause blurred vision, tremors, shallow and rapid breathing, delirium and unconsciousness.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Ignition will give rise to a Class B fire. In case of large fire use: water spray, alcohol foam. In case of small fire use: Foam. Dry chemical powder, carbon dioxide, sand or earth.

Special Exposure Hazards (fire fighting): Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Special Fire Fighting Procedures: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Water spray should be used to cool intact drums. Prevent runoff from fire control entering waterways.

HAZCHEM code: 3 Y

6 ACCIDENTAL RELEASE MEASURES

Precautions: Eliminate all sources of ignition. Wear protective clothing, boots, gloves, and eye protection.

Methods for Cleaning Up: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. Clean up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with vacuum truck.

7 HANDLING & STORAGE

Handling: Avoid skin and eye contact and inhalation of vapours. Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS 1715 and AS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse.

Storage: Flammable Liquid (Class 3). Take precautionary measures against static discharge. Store in well ventilated area. Store away from organic, combustible materials, oxidizing agents, foodstuffs. Keep containers closed at all times. Check regularly for leaks. Avoid thermal shock. Store in cool place and out of direct sunlight. Store away from sources of heat or ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	Xylene	TWA (8 hours)	80 ppm	TWA (8 hours)	350 mg/m ³
		STEL (15 min)	150 ppm	STEL (15 min)	655 mg/m ³

Can be absorbed through the skin

Engineering Controls: Use local exhaust ventilation. Do not use in an enclosed or poorly ventilated area.

Hand Protection: Wear impervious gloves if contact with liquid is possible. Viton offers good resistance; other materials may be less suitable. Refer AS 2161, 2919 and AS/NZS 2210 for more information.

Eye Protection: Safety glasses with top and side shields, goggles or face shield. Refer Australian Standards AS 1336 and AS/NZS 1337 for more information.

Body Protection: Standard issue work clothes safety shoes or boots - chemical resistant. If splashes are likely to occur, wear: long sleeve overall. Check with equipment supplier to determine if level of protection is adequate.

Flammability: Flammable

9 PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid
Smell:	Aromatic Solvent
pH:	Not applicable
Boiling Point (at 760 mmHg):	138 – 185°C (ASTM D-1078)
Melting Point:	< - 50°C
Flashpoint:	25°C (Abel)
Flammability:	Flammable
Explosive Limits:	LEL: 0.6 %v/v UEL: 7.0% v/v
Auto-ignition Temperature:	>460°C (ASTM E-659)
Oxidizing Properties:	No data
Vapour Pressure (20°C):	1 kPa
Vapour Density (Air =1):	3.7

Solubility in Water:	Insoluble
Specific Gravity:	0.86 – 0.87
VOC content:	865 g/L 100%

10 STABILITY & REACTIVITY

Stability: Stable under normal use conditions. Reacts with strong oxidizing agents. Reacts with strong acids.

Conditions to Avoid: Heat, sparks, flames.

Incompatibility (materials to avoid): Strong acids, strong oxidizing agents

Hazardous Decomposition Products: None known.

Hazardous Transformation Products: Will not occur.

11 TOXICOLOGICAL INFORMATION

No product toxicological information is available, but for similar product they are as follows:

Acute Oral Toxicity (LD₅₀):	Low toxicity, LD ₅₀ > 2000 mg/kg
Acute Dermal Toxicity (LD₅₀):	Low toxicity, LD ₅₀ > 2000 mg/kg
Acute Inhalation Toxicity (LC₅₀):	Low toxicity, LC ₅₀ > 5 mg/L

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Harmful if inhaled. Material is an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as a Category 4 Hazard.
Acute toxicity estimate (based on ingredients): 10 - 20 mg/L

Skin contact: This material has been classified as a Category 4 Hazard.
Acute toxicity estimate (based on ingredients): 1,000 - 2,000 mg/kg

Ingestion: This material has been classified as non-hazardous.
Acute toxicity estimate (based on ingredients): >2,000 mg/kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes.
Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitization: Inhalation: this material has been classified as not a respiratory sensitizer.
Skin: this material has been classified as not a skin sensitizer.

Aspiration hazard: This material has been classified as Aspiration Hazard Category 1

Specific target organ toxicity (single exposure):
This material has been classified as a Category 3 Hazard.
Exposure via inhalation may result in respiratory irritation.

This material has been classified as a Category 3 Hazard.
Exposure via inhalation may result in depression of the central nervous system.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12 ECOLOGICAL INFORMATION

Basis for assessment: Ecotoxicological data have not been determined specifically for this product.

The information given below is based on knowledge of the components and the ecotoxicology of similar products.

Acute aquatic hazard: This material has been classified as non-hazardous.

Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material contains a substance which has been classified as a Chronic Hazard to the aquatic environment, Category 2. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR, in the absence of chronic toxicity data, acute toxicity estimate (based on ingredients): 1–10 mg/L, where the substance is not rapidly degradable and/or BCF \geq 500 and/or log $K_{ow} \geq$ 4.

Mobility: Floats on water. Evaporates within a day from water or soil surfaces.
Dissolved material evaporates rapidly.
Product remaining on soil surface evaporates within a day.
If product enters soil, it will be mobile and may contaminate groundwater

Persistence/degradability: No information available.
Expected to persist under anaerobic conditions.
Oxidizes rapidly by photo-chemical reactions in air.
Dominant loss process – photolysis.
Expected to pose a significant risk of oxygen depletion in aquatic systems.

Bioaccumulation: Does not bio-accumulate significantly.
Acute toxicity – fish: Toxic, $1 < LC/EC/IC_{50} \leq 10$ mg/L
Acute toxicity – invertebrates: Toxic, $1 < LC/EC/IC_{50} \leq 10$ mg/L
Acute toxicity – algae: Toxic, $1 < LC/EC/IC_{50} \leq 10$ mg/L
Acute toxicity – bacteria: Slightly toxic, $10 < LC/EC/IC_{50} \leq 100$ mg/L
Based on o- and p-xylene

Other information:

13 DISPOSAL CONSIDERATIONS

Precautions: Refer to Section 7 before handling the product or containers.

Waste disposal: Recover or recycle if possible. Otherwise: Incineration.

Product disposal: Recover or recycle if possible. Otherwise: Incineration.

Container disposal: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

Local legislation: The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.

14 TRANSPORT INFORMATION

SHIPPING NAME: PETROLEUM DISTILLATES, N.O.S., (Flammable Liquid)

Packing Group: III

Mode	Regulations	Class	Packing Group	Notes
-	UN	1268	III	
Sea	IMDG	Class 3.3	III	
Road/Rail	ADG Code	Class 3	III	
Air	IATA/ICAO	Class 3	III	

Classified as Class 3 (FLAMMABLE LIQUID) Dangerous Substance for the purpose of transport. Refer to relevant regulations for storage and transport requirements.

Not to be loaded with explosives (Class 1), spontaneously combustible substances (Class 4.2), oxidizing agents (Class 5.1), organic peroxides (Class 5.2), or foodstuff empties, however exemptions may apply.

This material is a Scheduled Poison (S6) and must be stored, maintained and used in accordance with the relevant regulations.

15 REGULATORY INFORMATION

GHS Classification

GHS02	Flammable liquids (Category 3)
GHS07	Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Skin corrosion/irritation (Category 2)
GHS08	Specific target organ toxicity (single exposure) (Category 3) Narcotic effects Aspiration hazard (Category 1)
GHS09	Chronic Hazard to the aquatic environment (Category 2)

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312+332	Harmful in contact with skin or if inhaled
H315	Causes skin irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

EEC Symbol: Xn	Harmful
Xi	Irritant
F	Flammable

EEC Council Directives relating to the classification, packaging and labelling of dangerous substances and preparations Risk (R) and Safety (S) phrases:

R10	Flammable
R20/21	Harmful by inhalation and in contact with skin
R38	Irritating to skin
R65	Harmful: May cause lung damage if swallowed.
S2	Keep out of reach of children
S9	Keep container in a well ventilated place
S16	Keep away from sources of ignition – No smoking
S23	Do not breathe vapour
S24/25	Avoid contact with skin and eyes

16 OTHER INFORMATION

Uses and restrictions: Raw material for use in the chemical industry. Persistent abuse involving repeated and prolonged exposures to high concentrations of vapour ('sniffing') has been reported to result in central nervous system damage and, potentially, death.

SDS distribution: The information in this document should be made available to all who may handle the product.

Reference: The content and format of this safety data sheet is in accordance with the 3rd Revised Edition of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia's Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals (2011)

Issue Date: 19th February, 2017

Reason for Issue: Supersedes previous issue dated 6th May, 2015
Changes to environmental hazard classification

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