

M-Clean: Metal Formwork Cleaner / Concrete Remover

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Identifier

Product name: M-Clean

Uses and uses advised against

Relevant identified uses: Metal Formwork Cleaner / Concrete Remover

Details of the supplier of the product

Supplier name: Chemforce Pty Ltd
Address: 34 Law Court, Sunshine West, 3020, VIC, Australia
Telephone: +61 (0)417 339927
Email: john@chemforce.com.au

Emergency telephone numbers

Emergency +61 (0)417 339927

2. HAZARDS IDENTIFICATION

**Signal Word**

Danger.

Hazard Classifications

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

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Hazard Statements / Label elements

Detergent mixture (see section 15). Mixture for spray application.
In compliance with EC regulation No. 1272/2008 and its amendments.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled. Prevention Precautionary Statements

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P260 Do not breathe dust, fume, gas, mist, vapours or spray.

P264 Wash hands, face and all exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response Precautionary Statements

If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting (to avoid aspiration). Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs, give further water. Seek medical assistance.

IF ON SKIN: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before re-use.

IF INHALED: Remove victim to fresh air and avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. and keep at rest in a position comfortable for breathing until fully recovered. Seek medical attention if effects persist.

IF IN EYES: Rinse cautiously with water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting upper and lower eyelids while flushing with water. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of eye contamination, it is recommended to seek medical advice.

Storage Precautionary Statements

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal Precautionary Statement

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Regulation (EC) No. 1272/2008 (CLP)

Ingredients	Cas No.	Proportion	EINECS No. / REACH Registration
Organic carboxylic compound, proprietary	N/A	N/A	N/A
Alcohols, C12-15, ethoxylated	68131-39-5	< 3%	932-183-6

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation

Move away from vapours to fresh air source. Rest until normal breathing is restored. If irritation persists, get immediate medical attention.

Skin Contact

Flush area with water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If irritation persists, get immediate medical attention. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble).

Eye contact

Flush with water for 15 minutes. If irritation persists, get immediate medical attention.

Ingestion

DO NOT INDUCE VOMITING. Give large quantities of water. Get immediate medical assistance.

Notes to physician

Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

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All extinguishing agents can be used (water, dry chemical, carbon dioxide, foam and sand).

Specific hazards

Non- combustible material.

Firefighting further advice

No particular fire or explosion hazard.

Hazchem Code

None allocated.

Flammability

This product is not flammable.

6. ACCIDENTAL RELEASE MEASURES

Small spills

Should be contained and mopped up quickly to prevent an accident. Will make concrete surfaces slippery. For large spills, contain using sand or soil. Absorb using sand, soil, vermiculite or some other inert material. Neutralize spills with lime or soda ash. Flush spills with plenty of water.

Major spills

Moderate hazard.

Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water course.

Stop leak if safe to do so.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

Neutralise/decontaminate residue (see Section 13 for specific agent).

Collect solid residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

After clean-up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

Environmental precautions

Prevent product from entering sewers, storm drains, surface waters and soil where possible, where low pH may affect the local environment. Will not affect unfavourably affect water run-off recirculated into concrete batching plants.

Collect and seal in properly labelled containers for disposal. Refer to State Land Waste Authority for disposal. Flush area with water.

7. HANDLING AND STORAGE

Safe Handling

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Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Avoid contact with moisture.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately. Launder contaminated clothing before re-use.

Use good occupational work practice.

Observe manufacturer's storage and handling recommendations contained within this SDS.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. DO NOT allow clothing wet with material to stay in contact with skin

Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Not classified as a Dangerous substance for the purpose of transport, storage or handling. No special requirements.

Storage

Store in original containers.

Keep containers securely sealed.

Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storage and handling recommendations contained within this SDS.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters

No data available.

Exposure controls

Wear suitable protective equipment. Do not eat, drink or smoke at the job site.



Appropriate engineering control:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will

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typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Personal Protection

Respiratory protection

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Always use a respirator when working indoors.

Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter. Recommended filter - type A-P Filter of sufficient capacity (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent).

Eye/face protection:

against

liquid splashes.

Before handling, wear safety goggles with protective

side

Chemical goggles (EN 166). Use eye protectors designed to protect

accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

When spraying, wear a face shield in accordance with standard

EN166.

Prescription glasses are not considered as protection.

Skin protection: rubber gloves.

Wear suitable protective clothing and gloves. Plastic or

For example, EN374-3, level 6 breakthrough time (>480min). Wear suitable overalls and foot protection.

Hygiene measures: do not

Keep away from food, drink and animal feeding stuffs. When using

eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

Biological Limit Values:

As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this

Environmental Exposure Controls

Avoid release into the environment.

material do not have a Biological Limit Allocated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Material Family:

Organic Material

Base Units:

Litres

Form:

Clear Liquid

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Colour:	Light Tan
Odour:	Faint glycol odour, mild like burnt sugar
Solubility:	Miscible in water
Specific Gravity (20 °C):	1.05
Vapour Pressure (20 °C):	Not relevant
Flash Point (°C):	Not relevant
Flammability Limits (%):	Not relevant
Autoignition Temperature (°C):	N/A
Av Melting Point/Range (°C):	0
App Boiling Point/Range (°C):	100
pH:	2.6 (+/- 0.5)
Viscosity:	N/A
VOC (g/Litre):	N/A

10. STABILITY AND REACTIVITY

Chemical stability

This material is thermally stable when stored and used as directed.

Conditions to avoid

Avoid frost.

Incompatible materials

Keep away from strong bases.

Hazardous decomposition products

Thermal decomposition may release/form: carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Ingestion: The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.

Inhalation: Inhalation of vapours may cause coughing, difficulty in breathing.

Skin Contact: Irritant to the skin on prolonged contact. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The use of gloves is strongly recommended.

Eye Contact: This material can cause eye irritation and damage in some persons.

Skin corrosion/irritation: Irritating to skin.

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Serious eye damage/irritation: Irritating to eyes.

Sensitisation: Not sensitising.

Mutagenicity: No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity: No structural alerts. IARC, NTP, OSHA, ACGIH

12. ECOLOGICAL INFORMATION

Toxicity: Fish (Leuciscus idus) LC50 (48 hour) >146 mg/l Aquatic invertebrates: (Daphnia magna) EC50 (24 hour) >146 mg/l

Persistence and degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bio-accumulative potential: Inorganic. The substance has no potential for bioaccumulation.

Mobility in soil: Not applicable.

Results of PBT and vPvB assessment: Not classified as PBT or vPvB.

Other adverse effects: The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Where in doubt contact the responsible authority.

Recycle wherever possible.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by burial in a landfill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

14. TRANSPORT INFORMATION

UN Number: 3265
UN Proper Shipping Name: AFC-Gel
Dangerous Goods Class: 8
Subsidiary risk: None allocated

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Packing Group: II
 Hazchem Code: None allocated
 Special precautions for user:

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunne l
	8	C3	II	8	80	1 L	274	E2	2	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis	EQ
	8	-	II	1 L	F-A,S-B	274	E2

IATA	Class	2°Label	Pack gr.	Passenger	Passenger	Cargo	Cargo	note	EQ
	8	-	II	851	1 L	855	30 L	A3 A803	E2
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of Marpol and the IBC Code

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and labelling information included in section 2:

The following regulations have been used: EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

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Container information:	No data available.
Particular provisions:	No data available.
Labelling for detergents (EC Regulation No. 648/2004,907/2006): surfactants	- less than 5 %: non-ionic - perfumes - allergenic fragrances: benzyl salicylate linalool
Chemical safety assessment:	No data available.

16.OTHER INFORMATION

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Chemforce Pty Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Chemforce Pty Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

CONTACT NUMBER FOR POISONS CENTRE

For advice, immediately contact a doctor, ambulance, or, a Poison Information Centre:

Australia 13 11 26 (Australia Wide)

USA - American Association of Poison Control Centres 1-800-222-1222

Canadian Poison Centres – Ontario (24/7): Telephone: 416-813-5900; Toll free: 1-800-268-9017

UK - England and Wales: NHS 111 - dial 111;

Scotland: NHS 24 - dial 111;

Republic of Ireland: 01 809 2166

New Zealand Poisons Centre: 0800 POISON / 0800 764766