

SAFETY DATA SHEET

HARD MIX FLOOR

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name HARD MIX FLOOR

1.2 Relevant identified uses of the substance or mixture and uses advised against

Description/Application Resin for flooring

1.3 Details of the Australian importer

Name: Calce Company Pty Ltd
Full address: 24/13-15 Baker Street, Banksmeadow NSW 2019, Australia
Phone: +61 2 9666 4492
E-mail address: info@calcecompany.com

Details of the manufacturer and supplier of the safety data sheet

Name: Bericalce Srl
Full address: Via Piave 23, 36033 Isola Vicentina (VI), Italy
Phone: +39 0444 929102
E-mail address of the competent person: info@bericalce.com

1.4 Emergency telephone number

For urgent inquiries refer to: Emergency Services (Australia) 000
Poisons Information Centre (Australia) 13 11 26 (24 h / 7 days)

2 HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture.

The product is not classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP). The product, however, containing dangerous substances in concentrations such as to be declared to the section no. 3, requires a safety data sheet with adequate information, in accordance with Regulation (EC) 1907/2006 and subsequent amendments.

Hazard classification and indications: Not classified as dangerous.

2.2. Label elements.

Hazard pictograms: -

Warnings: -

Hazard:

EUH210

Safety data sheet available on request.

Safety advice:

P262

Avoid contact with eyes, skin or clothing.

P273

Do not disperse in the environment.

P280

Wear protective gloves / clothing and eye / face protection.

P305 + P351 + P338

IN CASE OF CONTACT WITH EYES: Rinse thoroughly for several minutes.

Remove any contact lenses if it is easy to do. Continue to rinse.

P501

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

2.3 Other hazards

Based on the available data, the product does not contain PBT or vPvB substances in percentages greater than 0.1%

HARD MIX FLOOR

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Information not relevant

3.2 Mixtures

It contains:

Identification	Conc. %	Classification 67/548/CEE. Classification 1272/2008 (CLP).
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Butyldiglycol

CAS 112-34-5	$0.5 \leq x < 1.5$	Eye Irrit. 2 H319
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EC 203-961-6

INDEX 603-096-00-8

Reg. No. 01-2119475104-44

Polypropyleneglycol

CAS 25322-69-4	$0.1 \leq x < 0.5$	Acute Tox. 4 H302
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CE 500-039-8

INDEX -

(Methyl-2-methoxyethoxy) propanol

CAS 34590-94-8	$0.01 \leq x < 0.5$	Substance with a community workplace exposure limit
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EC 252-104-2

INDEX -

Reg. No. 01-2119450011-60

2-methyl-2H-isothiazol-3-one

CAS 2682-20-4	$0.001 \leq x < 0.1$	Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Acute 1 H400 M = 10, Aquatic Chronic 2 H411
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CE 220-239-6

INDEX -

4 FIRST AID MEASURES

4.1 Description of first aid measures

Not specifically necessary. In any case, compliance with the rules of good industrial hygiene is recommended.

4.2 Most important symptoms and effects, both acute and delayed.

No specific information is known about the symptoms and effects caused by the product.

4.3 Indication of any immediate medical attention and special treatment needed.

Information not available

HARD MIX FLOOR

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7.

Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle the product after consultation with all other sections of this SDS. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in clearly labeled containers. Keep containers away from incompatible materials, checking section 10.

7.3 Specific end use(s)

Information not available.

HARD MIX FLOOR

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Normative requirements

ITA I	TALIA	Legislative Decree 9 April 2008, n. 81
	TLV-ACGIH	ACGIH 2014
AUS	Österreich	Grenzwerteverordnung 2011 - GKV 2011
CHE	Suisse / Schweiz	Valeurs limites of exposure for traffickers 2014. / Grenzwerte am Arbeitsplatz
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC; Directive 2000/39 / EC; Directive 91/322 / EEC

Butyldiglycol

Threshold limit value

Type	State	TWA/8h mg/m ³	STEL / 15min status ppm	mg/m ³	ppm
OEL	EU	67.5	10	101.2	15

Estimated concentration of no effect on the environment - PNEC

Reference value in fresh water	1.1 mg / l
Reference value in sea water	0,11 mg / l
Reference value for sediment in fresh water	4.4 mg / kg
Reference value for sediments in sea water	0.44 mg / kg
Reference value for STP microorganisms	200 mg / l
Reference value for the food chain (secondary poisoning)	56 mg / kg
Reference value for the Earth compartment	0.32 mg / kg

Health - Derived no-effect level - DNEL / DMEL

Exposure	Effects on the worker				Effects on consumer			
	Local acute	Systems acute	Local chronic	Systemic chronic	Local acute	Systems acute	Local chronic	Systemic chronic
Oral				5 mg/kg bw/d				
Inhalation	60.7 mg/m ³		40.5 mg/m ³	40.5 mg/m ³	101.2 mg/m ³		67.5 mg/m ³	67.5 mg/m ³
Dermal				50 mg/kg bw/d			83 mg/kg bw/d	

Polypropyleneglycol

Threshold limit value

Estimated concentration of no effect on the environment - PNEC

Reference value in fresh water	0,2 mg / l
Reference value in sea water	0,02 mg / l
Reference value for sediment in fresh water	0,419 mg / kg
Reference value for sediments in sea water	0.042 mg / kg
Reference value for STP microorganisms	100 mg / l
Reference value for the Earth compartment	0.031 mg / kg

Health - Derived no-effect level - DNEL / DMEL

Exposure	Effects on the worker				Effects on consumer			
	Local acute	Systems acute	Local chronic	Systemic chronic	Local acute	Systems acute	Local chronic	Systemic chronic
Oral				8,3 mg/kg bw/d				
Inhalation				29 mg/m ³				98 mg/m ³
Dermal				8,3 mg/kg bw/d				13,9 mg/kg bw/d

HARD MIX FLOOR**(METHYL-2-methoxyethoxy) PROPANOL****Threshold limit value**

Type	State		TWA/8h mg/m3	STEL / 15min status ppm		mg/m3	ppm	SKIN
OEL	EU		308	50		1		
Estimated concentration of no effect on the environment - PNEC								
Reference value in fresh water						19 mg / l		
Reference value in sea water						1,9 1 mg / l		
Reference value for sediment in fresh water						70,2 mg / kg		
Reference value for sediments in sea water						7,02 mg / kg		
Reference value for STP microorganisms						4168 mg / l		
Reference value for the Earth compartment						2,74 mg / kg		
Health - Derived no-effect level - DNEL / DMEL								
	Effects on the worker				Effects on consumer			
Exposure	Local acute	Systems acute	Local chronic	Systemic chronic	Local acute	Systems acute	Local chronic	Systemic chronic
Oral				36 mg/kg bw/d				
Inhalation				37,2 mg/m3				308 mg/m3
Dermal				121 mg/kg bw/d				283 mg/kg bw/d

2-METHYL-2H-isothiazol-3-ONE

Type	State	TWA/8h mg/m ³	STEL / 15min status ppm	mg/m ³	ppm		
MAK	AUS	0,05					
MAK	CHE	0,2		0,4			
AGW	DEU	0,2		0,4		INALAB	

Legend:

(C) = CEILING ; INALAB = inhalable fraction ; RESPIR = Respirable fraction ; TORAC = Thoracic fraction.

VND = identified hazard but no DNEL/PNEC available; NEA = no expected exposure;

NPI = no hazard identified.

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration. For the selection of personal protective equipment, if necessary, request advice from your chemical substance suppliers.

The personal protective equipment must bear the CE marking attesting to their compliance with applicable regulations. Provide emergency shower with a pan for face and eyes.

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). Final selection of the material of the gloves must be considered: compatibility, degradation, breakage times and permeation. In the case of preparations the resistance of protective gloves to chemicals should be checked before use, as expected. The gloves' limit depends on the duration and method of use.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use category II (ref. Directive 89/686/EEC and law EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

We recommend wearing hood visor or protective visor together with airtight goggles (ref. law EN 166).

HARD MIX FLOOR

RESPIRATORY PROTECTION

If the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (see standard EN 14387). In the event there were gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.) it is necessary to provide type filters combined. The use of respiratory protection means is necessary in case the technical measures taken are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. However, the protection offered by the masks is limited. In the event that the substance considered is odorless or its olfactory threshold is higher than the relative TLV-TWA and in the event of an emergency, wear an open circuit compressed air breathing apparatus (see standard EN 137) or a breathing apparatus outdoor air (see standard EN 138). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

ENVIRONMENTAL EXPOSURE CONTROLS.

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Milky
Odour	Slight
Odour threshold	Not available
pH	7,5 - 8,5
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	> 60 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,00 g/l
Solubility	Miscible on water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	10 - 30 cP (Brookfield, 25°C)
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

VOC (Directive 2010/75 / EC):	0.10% - 0.98 g / liter
VOC (volatile carbon):	0.06% - 0.56 g / liter

HARD MIX FLOOR

10 STABILITY AND REACTIVITY

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

butyldiglycol

No specific data available.

polypropyleneglycol

Stable in normal conditions of use and storage.

(Methyl-2-methoxyethoxy) propanol

Stable in normal conditions of use and storage.

2-methyl-2H-isothiazol-3-one

No specific data available.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

butyldiglycol

Stable in normal conditions of use and storage.

polypropyleneglycol

Stable in normal conditions of use and storage.

(Methyl-2-methoxyethoxy) propanol

Stable in normal conditions of use and storage.

2-methyl-2H-isothiazol-3-one

No specific data available.

10.3 Possibility of hazardous reactions

Unusual reactions are not expected under normal use and storage conditions.

butyldiglycol

It can react with: oxidizing substances. It can form peroxides with: oxygen. Hydrogen developing in contact with: aluminum. It can form explosive mixtures with: air.

polypropyleneglycol

Stable in normal conditions of use and storage.

(Methyl-2-methoxyethoxy) propanol

Avoid contact with: oxidizing agents.

2-methyl-2H-isothiazol-3-one

No specific data available.

10.4 Conditions to avoid

None in particular. However, follow the usual precautions with regard to chemicals

butyldiglycol

Avoid exposure to: high temperatures, air, sources of ignition.

polypropyleneglycol

Avoid exposure to: humidity.

(Methyl-2-methoxyethoxy) propanol

Avoid contact with: oxidizing agents.

2-methyl-2H-isothiazol-3-one

No specific data available.

10.5 Incompatible materials

butyldiglycol

Incompatible with: oxidizing substances, strong acids, alkali metals.

polypropyleneglycol

Avoid contact with: strong oxidizing agents.

(Methyl-2-methoxyethoxy) propanol

Avoid contact with: strong acids, strong oxidizing agents, strong bases.

2-methyl-2H-isothiazol-3-one

No specific data available.

HARD MIX FLOOR**10.6. Hazardous decomposition products**butyldiglycol

For decomposition develops: carbon oxides.

polypropyleneglycol

No specific data available.

(Methyl-2-methoxyethoxy) propanol

For decomposition develops: carboxylic acids, aldehydes, ketones.

2-methyl-2H-isothiazol-3-one

No specific data available.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

butyldiglycol

WORKERS: inhalation; contact with the skin.

Immediate, delayed, and chronic effects from short and long-term exposure

butyldiglycol

It can be absorbed by inhalation, ingestion and skin contact; it is irritating to the skin and especially to the eyes.

You can have damage to the spleen. At room temperature the danger of inhalation is unlikely due to the low vapor pressure of the substance.

Interactive effects

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no relevant component)

LD50 (Oral) of the mixture: Not classified (no relevant component)

LD50 (Cutaneous) of the mixture: Not classified (no relevant component)

(Methyl-2-methoxyethoxy) propanol

LD50 (Oral) > 5000 mg / kg male / female rat

LD50 (Cutaneous) 9510 mg / kg male rabbit

polypropyleneglycol

LD50 (Oral) > 2000 mg / kg Rat - Fischer 344

LD50 (Cutaneous) > 3000 mg / kg Rabbit - New Zealand white

butyldiglycol

LD50 (Oral) 2410 mg / kg male rat

LD50 (Cutaneous) 2764 mg / kg male rabbit

12 ECOLOGICAL INFORMATION**12.1. Toxicity**

(Methyl-2-methoxyethoxy) propanol

LC50 - Fishes

> 1000 mg / l / 96h Poecilia reticulata

EC50 - Crustaceans

1919 mg / l / 48h Daphnia magna

EC50 - Algae / Aquatic Plants

> 969 mg / l / 72h Pseudokirchneriella subcapitata

polypropyleneglycol

LC50 - Fishes

> 100 mg / l / 96h Danio rerio

EC50 - Crustaceans

105,8 mg / l / 48h Daphnia magna

EC50 - Algae / Aquatic Plants

> 100 mg / l / 72h Desmodesmus subspicatus

butyldiglycol

LC50 - Fish

1300 mg / l / 96h Lepomis macrochiru

EC50 - Crustaceans

> 100 mg / l / 48h Daphnia magna

HARD MIX FLOOR

12.2 Persistence and degradability

(Methyl-2-methoxyethoxy) propanol
Solubility in very soluble 100% water
Rapidly degradable 96% 28 d
polypropyleneglycol
Solubility in miscible water 1000 - 10000 mg / l
Rapidly degradable 84.7% 14 d
butyldiglycol
Solubility in miscible water 955000 mg / l
Rapidly degradable 85% 28 d

12.3 Bioaccumulative potential

(Methyl-2-methoxyethoxy) propanol
Partition coefficient: n-octanol / water 0.0043
polypropyleneglycol
Partition coefficient: n-octanol / water 0.01
butyldiglycol
Partition coefficient: n-octanol / water 1

12.4 Mobility in the soil

polypropyleneglycol
Partition coefficient: soil / water <1.25

12.5 Results of the PBT and vPvB assessment

Based on the available data, the product doesn't contain PBT or vPvB substances in percentages > of 0.1%.

12.6 Other adverse effects

Information not available.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Avoid littering. Do not contaminate soil, sewers and waterways.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14 TRANSPORT INFORMATION**14.1 ONU number**

Not dangerous materials.

14.2 ONU shipping name

Not applicable.

14.3 Hazard classes connected to shipping

Not applicable.

14.4 Packaging group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for users

Not applicable.

14.7 Shipping of bulk according to MARPOL 73/78 annex and the IBC code

No relevant information.

HARD MIX FLOOR

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH) None

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention None

Substances subject to the Stockholm Convention None

Healthcare controls

Information not available.

15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

16 OTHER INFORMATIONS

Acute Tox. 2 Acute toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1B Skin corrosion, category 1B

Eye Irrit. 2 Eye irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H330 Lethal if inhaled.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH210 Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESI (European archive of existing substances)

- CLP: EC Regulation 1272/2008

- DNEL: Derived No Effect Level

- EmS: Emergency Schedule

- GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation

- IC50: Immobilization Concentration 50%

- IMDG: International Maritime Code for dangerous goods

- IMO: International Maritime Organization

- INDEX NUMBER: Identifier in Annex VI of CLP

- LC50: Lethal Concentration 50%

- LD50: Lethal dose 50%

HARD MIX FLOOR

- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable concentration without effects
- REACH: EC Regulation 1907/2006
- RID: Regulations for the international transport of dangerous goods by train
- TLV: Threshold limit value
- TLV CEILING: Concentration that must not be exceeded during any moment of work exposure.
- TWA STEL: Short-term exposure limit
- TWA: Weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulant according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
15. ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the

suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current

health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

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