MSDS – DRY MIX Mortar

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Dry Mix Mortar
Supplier Name	Metsel
Telephone	08 94671891
Email	info@metsel.com.au
Web Site	http://www.metsel.com.au
Synonym(s)	Dry Mix mortar

Use(s) internal and external mortar

.

2. HAZARDS IDENTIFICATION

This product is classified as hazardous according to Safe Work Australia criteria.

Not classified as a dangerous good by the criteria of the ADG code, IMDG or IATA.

GHS Classifications

Skin Corrosion/Irritation:	Category 2
Skin Sensitization:	Category 1
Serious Eye Damage / Eye Irritation:	Category 1
Specific Target Organ Systemic Toxicity (Repeated Exposure):	Category 2

SIGNAL WORD WARNING

Pictograms

Hazard statements

H319	Causes eye irritation.
H315	Causes skin irritation. H317 May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to lungs and respiratory tract through prolonged or repeated exposure.

Prevention statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response statements

P302 + P352 IF ON SKIN:	Wash with plenty of soap and water.
P304 + P340 IF INHALED:	Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs:	Get medical advice/attention.

Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

UN No None Allocated **Hazchem Code** None Allocated **Pkg Group** None Allocated

DG Class None Allocated **Subsidiary Risk(s)** None Allocated **EPG** None Allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Being a sand based product there is a risk that the 'Respirable Crystalline Quartz' (RCQ) content may be hazardous to human health. While the product is wet and being applied the amount of airborne RCQ will be reduced but it is strongly advised that proper PPE is worn to minimize the possibility of inhalation. Once dry any residues, grinding or strong abrasive forces on the finished product may reintroduce RCQ into the air so caution should be taken.

Ingredient	Formula	Conc.	CAS No
PORTLAND CEMENT	Not Available	10 - 15%	65997-15-1
HYDRATED LIME *GYPSUM	Ca(OH)2	5 – 7%	1305-62-0
CHROMIUM (VI) HEXAVALENT	Cr6+	Trace	18540-29-9
CRYSTALLINE SILICA (QUARTZ)	SiO2	<80%	14808-60-7

4. FIRST AID MEASURES

Eye Flush thoroughly with flowing water for at least 15 minutes and seek medical attention if symptoms persist. If wet cement is splashed into the eyes flush thoroughly with flowing water for 15 minutes and seek urgent medical attention.

Inhalation Remove from dusty area to fresh air. If symptoms persist, seek medical attention.

Skin Wash off skin thoroughly with water. A shower may be required.

Ingestion Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.

Advice to Doctor Treat symptomatically.

First Aid Facilities Eye wash station.

Additional Information - Aggrevated Medical Conditions

Inhalation Over exposure resulting from prolonged and repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung.) It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs) and lung cancer. Epidemiological studies have shown that smoking increases the risk of bronchitis, silicosis (scaring of the lung) and lung cancer in persons exposed to crystalline silica.

Skin Prolonged and repeated skin contact with cement in wet concrete, mortars and slurries may result in irritant dermatitis or alkaline burns.

5. FIRE FIGHTING

Flammability Non flammable. Does not support combustion of other materials.

Fire and Explosion No fire or explosion hazard exists.

Extinguishing Non flammable; use suitable extinguishing agent for surrounding fire.

Hazchem Code None.

6. ACCIDENTAL RELEASE MEASURES

Spillage Wear dust-proof goggles, PVC/rubber gloves, a Class P2 respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.

Emergency Procedures Follow safety requirements for personal protection under Section 8 Exposure Procedures Controls/Personal Protection.

7. HANDLING AND STORAGE

Storage Store off the floor in the original bags in a cool, dry, well ventilated area, removed from excessive moisture and heat. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

Handling Dried Sand is supplied in 20kg bags. Recognised local safe lifting methods should be used.

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Property/ Environmental Refer to Section 13.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Do not inhale dust/powder. Use with adequate ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

Exposure Standards: SILICA, CRYSTALLINE – QUARTZ (14808-60-7) ES-TWA: 0.1 mg/m3 (Respirable Dust)

CALCIUM HYDROXIDE (1305-62-0) Standards ES-TWA: 5 mg/m3 (Respirable Dust)
CHROMIUM (VI) HEXAVALENT(18540-29-9) ES-TWA: 0.05 mg/m3 (Chromium VI compounds)

GYPSUM (10101-41-4) ES-TWA: 10 mg/m3 (Respirable Dust)

PORTLAND CEMENT (65997-15-1) ES-TWA: 10 mg/m3

PPE

Wear dust-proof goggles and rubber or PVC gloves. Where an inhalation risk exists, wear a Class P2 respirator. If there is potential for prolonged and/or excessive skin contact, wear coveralls. At high dust levels, wear a Class P3 respirator or a Powered Air Purifying Respirator (PAPR) with Class P3 filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine powder grey to white	**Solubility (water)**	Hardens with water
Odour	Odourless	**Specific Gravity**	2.7 -3.5
pH Approximately	12	**Volatiles**	Not Available
Vapour Pressure	Not Available	**Flammability**	Non Flammable
Vapour Density	Not Available	**Flash Point**	Not Relevant
Boiling Point	Not Available	**Upper Explosion Limit**	Not Relevant
Melting Point	Not Available	**Lower Explosion**	Limit Not Relevant
Evaporation Rate	Not Available	**Autoignition Temperature**	Not Available
Bulk Density	1000- 1,450 kg/m3(approximately)	**Particle Size**	< 1 mm

10. STABILITY AND REACTIVITY

Chemical Stability	Chemically Stable
Conditions to Avoid	Keep free of moisture
Incompatible	Incompatible with oxidising agents (eg hypochlorites), ethanol, acids (eg hydrofluoric acid)
Materials and interhalogens	Water contact may increase product Decomposition
Decomposition Products	Unlikely to evolve toxic gases when heated to decomposition

Hazardous Reactions None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	High chronic toxicity. Associated with prolonged exposure to high dust levels.
Eye	Irritant upon contact with dust. Over exposure may result irritation and lacrimation.
Inhalation	Long term exposure can lead to irritation in the nose and throat. Prolonged and repeated inhalation of respirable silica may result in silicosis.
Skin	Irritating to the skin. Prolonged and repeated contact may result in skin rash, abrasions and dermatitis.

Ingestion This product is biologically inert. However, ingestion may result in gastrointestinal irritation due to the dusts mechanical action.

Mutagenicity Insufficient data available for this product to classify as a mutagen.

Carcinogenicity Dried Sand is not classified as a carcinogen by NOHSC. Crystalline silica is classified as carcinogenic to humans (IARC Group 1), however due to low levels present and productapplication, the criteria for classification is not met.

12. ECOLOGICAL INFORMATION

Toxicity Product forms an alkaline slurry when mixed with water. This product is non toxic to aquatic life forms when present in cured solid form.

Degradability Persistence & Product is persistent and would have a low degradability.

Mobility in soil A low mobility would be expected in a landfill situation.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer for additional information.

Legislation

Dispose of in accordance with relevant local legislation. Keep out of sewer and stormwater drains.

14. TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG Code.

Shipping Name None Allocated **UN No** None Allocated **Hazchem Code** None Allocated

Pkg Group None Allocated **DG Class** None Allocated **Subsidiary Risk(s)** None Allocated

EPG None Allocated

15. REGULATORY INFORMATION

Poison Schedule AISC

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

CEMENT CONTACT DERMATITIS:

Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The dermatitis is due to the presence of soluble (hexavalent) chromium.

Additional IARC – GROUP 1 – PROVEN HUMAN CARCINOGEN.

This product contains an ingredient for Information which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

RESPIRATORS:

In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The Recommendation for protective equipment contained within this SDS report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare an SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ABBREVIATIONS:

mg/m3- Milligrams per cubic metre

ppm - Parts Per Million

ES-TWA - Exposure Standard - Time Weighted Average

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service Number - used to uniquely identify chemical compounds.

IARC - International Agency for Research on Cancer.

Report Status

This document has been compiled by Metsel Limited the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ("SDS"). While Metsel Limited has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Metsel Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Contact Point

For further information on this product contact:

Telephone: Office hours 08 94671891

After hours 08 94671891

Web site: http://www.metsel.com.au

Advice Note

The information in this document is believed to be accurate. Please check the currency of this SDS by contacting:

08 94671891

http://www.metsel.com.au

The provision of this information should not be construed as a recommendation to use this product in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Users should read this SDS and consider the information in the context of how the product will be handled and used in the workplace and in conjunction with other substances or products.