# **SAFETY DATA SHEET**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name GYPSUM

Synonyms CALCIUM SULPHATE DIHYDRATE ● GYPSUM (CEMENT GRADE)

1.2 Uses and uses advised against

Uses CEMENT PRODUCTION ● PLASTER

1.3 Details of the supplier of the product

Supplier name NYRSTAR HOBART

Address Risdon Road, Lutana, Tasmania, 7001, AUSTRALIA

**Telephone** (03) 6278 4444 **Fax** (03) 6278 4608

Website <a href="http://www.nyrstar.com">http://www.nyrstar.com</a>

1.4 Emergency telephone numbers

**Emergency** (03) 6278 4554

## 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

## 2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

### 2.3 Other hazards

No information provided.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
CALCIUM	7440-70-2	231-179-5	<23%
ZINC POWDER - ZINC DUST (STABILISED)	7440-66-6	231-175-3	<0.28%
CADMIUM	7440-43-9	231-152-8	<0.01%
LEAD	7439-92-1	231-100-4	<0.01%
MERCURY	7439-97-6	231-106-7	<0.01%
CALCIUM SULPHATE DIHYDRATE	10101-41-4	600-148-1	<95%
SULPHATE(S)	-	-	<53%

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

ChemAlert.

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**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

First aid facilities None allocated.

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

This product is generally considered to be of low toxicity, however over exposure to dust should be avoided.

## 4.3 Immediate medical attention and special treatment needed

Drinking glycerin, gelatin solutions, or large volumes of water may delay the hardening of this product in the stomach. Surgical relief of obstruction, particularly at the phlorus, may be required.

## 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

## 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases (sulphur oxides) when heated to decomposition.

## 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

## 5.4 Hazchem code

None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

## 6.2 Environmental precautions

Prevent product from entering drains and waterways.

## 6.3 Methods of cleaning up

Moisten with water to prevent a dust hazard and place in sealable containers for disposal.

## 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

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.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are tightly sealed, adequately labelled and protected from physical damage.

## 7.3 Specific end uses

No information provided.



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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

## **Exposure standards**

Ingredient	Reference	TWA		STEL	
Ingredient	Keierence	ppm	mg/m³	ppm	mg/m³
Cadmium and compounds (as Cd)	SWA [AUS]		0.01		
Lead, inorganic dusts & fumes (as Pb)	SWA [AUS]		0.05		
Mercury, elemental vapour (as Hg)	SWA [AUS]	0.003	0.025		
Zinc oxide (dust)	SWA [AUS]		10		

## **Biological limits**

Ingredient	Determinant	Sampling Time	BEI
CADMIUM	Cadmium in urine	Not critical	5 μg/g creatinine
	Cadmium in blood	Not critical	5 μg/L
LEAD	Lead in blood	Not critical	200 μg/L
	Lead in blood (women of child bearing potential)	Not critical	10 μg/100ml
	Lead in blood (women of child bearing potential)	Not critical	10 μg/dL
	Lead in blood	Not critical	30 μg/dL
MERCURY	Total inorganic mercury in urine	Prior to shift	20 µg/g creatinine

Reference: ACGIH Biological Exposure Indices

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE

**Eye / Face** Wear dust-proof goggles. **Hands** Wear PVC or rubber gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

**Respiratory** Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.





# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance OFF-WHITE FINE POWDER

OdourODOURLESSFlammabilityNON FLAMMABLEFlash pointNOT RELEVANT

**Boiling point** 163°C > 800°C

Evaporation rate NOT AVAILABLE PH NOT AVAILABLE Vapour density NOT AVAILABLE

Specific gravity 2.32

Solubility (water)
Vapour pressure
Upper explosion limit
Lower explosion limit
Partition coefficient

SLIGHTLY SOLUBLE
NOT AVAILABLE
NOT RELEVANT
NOT RELEVANT
NOT AVAILABLE
NOT AVAILABLE

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## 9.1 Information on basic physical and chemical properties

**Autoignition temperature** 

Decomposition temperatureNOT AVAILABLEViscosityNOT AVAILABLEExplosive propertiesNOT AVAILABLEOxidising propertiesNOT AVAILABLEOdour thresholdNOT AVAILABLE

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

## 10.2 Chemical stability

Stable under recommended conditions of storage.

## 10.3 Possibility of hazardous reactions

Polymerization will not occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

## 10.5 Incompatible materials

Incompatible with aluminium (when heated), diazomethane, phosphorus (at high temperatures) and oxidising agents.

## 10.6 Hazardous decomposition products

May evolve toxic gases (sulphur oxides) when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity This product is generally considered to be of low toxicity, however over exposure to dust should be avoided.

## Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
CADMIUM	890 mg/kg (mouse)		25 mg/m³/30M (rat)
LEAD	50 mg/kg to 600 mg/kg (calf)		
MERCURY	10 - 40 mg/kg (expected)		0.014 mg/L/4 hours (rat)
CALCIUM SULPHATE DIHYDRATE	3000 mg/kg (rat)		

Skin Not classified as a skin irritant. Contact may result in mechanical irritation, redness and rash.

Eye Not classified as an eye irritant. Contact may cause discomfort, lacrimation and redness.

SensitisationNot classified as causing skin or respiratory sensitisation.MutagenicityInsufficient data available to classify as a mutagen.CarcinogenicityInsufficient data available to classify as a carcinogen.ReproductiveInsufficient data available to classify as a reproductive toxin.STOT - singleNot classified as causing organ damage from single exposure.

exposure

STOT - repeated

exposure

Not classified as causing organ damage from repeated exposure.

Aspiration Not relevant.

## 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

No information provided.



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## 12.2 Persistence and degradability

No information provided.

#### 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

## 12.5 Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal Reuse where possible. No special precautions are normally required when handling this product.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

## NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

## 14.5 Environmental hazards

No information provided.

## 14.6 Special precautions for user

Hazchem code None allocated.

## 15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

Inventory listings AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

## 16. OTHER INFORMATION

### **Additional information**

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).



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#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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: form of product; 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 a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

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

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

## Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT 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, RMT 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.

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