

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name CONTINUOUS GALVANISING GRADE ZINC

Synonyms CGG ● CGG ZINC

1.2 Uses and uses advised against

Uses GALVANISING APPLICATIONS

Sheet galvanising coating industry

1.3 Details of the supplier of the product

Supplier name NYRSTAR HOBART

Address Risdon Road, Lutana, TAS, 7001, AUSTRALIA

 Telephone
 (03) 6278 4444

 Fax
 (03) 6278 4608

 Email
 info@nyrstar.com

 Website
 http://www.nyrstar.com

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
ZINC	7440-66-6	231-175-3	>98%
ALUMINIUM	7429-90-5	231-072-3	0.1 to 2%
ANTIMONY	7440-36-0	231-146-5	0.04 to 0.12%

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Eye Exposure is considered unlikely unless solid is cut or damaged and dusts generated. Hold eyelids apart and

flush the eye continuously with running water for at least 15 minutes.

Inhalation Exposure is considered unlikely. If inhaled (solid is cut or damaged and dusts generated) remove from

contaminated area.

**Skin** Exposure is considered unlikely unless solid is cut or damaged and dusts generated. Gently flush affected

areas with water. Seek medical attention if irritation develops.

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

product form and application, ingestion is considered unlikely.

First aid facilities Normal washroom facilities should be available.

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

See Section 11 for more detailed information on health effects and symptoms.

# 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 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 zinc oxides when heated to decomposition.

## 5.3 Advice for firefighters

No fire or explosion hazard exists.

### 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

If spilt, collect and reuse where possible.

### 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.

## 7.3 Specific end uses

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

## **Exposure standards**

Ingredient	Reference	TWA		STEL	
Ingredient	gredient		mg/m³	ppm	mg/m³
Aluminium & compounds	SWA [Proposed]		1		
Aluminium (metal dust)	SWA [AUS]		10		
Antimony & compounds (as Sb)	SWA [AUS]		0.5		



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### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas.

**PPE** 

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

**Body** Not required under normal conditions of use.

**Respiratory** At high dust levels, wear a Class P1 (particulate) / N95 respirator.

**NOT AVAILABLE** 





# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance GREY/BLUE METALLIC SOLID

Odour **ODOURLESS Flammability** NON FLAMMABLE Flash point NOT RELEVANT **Boiling point NOT AVAILABLE Melting point** 420°C to 430°C **Evaporation rate NOT AVAILABLE** pН **NOT AVAILABLE** Vapour density **NOT AVAILABLE** 7.13 to 7.14 Relative density Solubility (water) **INSOLUBLE** Vapour pressure NOT AVAILABLE **Upper explosion limit NOT RELEVANT** Lower explosion limit **NOT RELEVANT** Partition coefficient **NOT AVAILABLE** Autoignition temperature **NOT AVAILABLE NOT AVAILABLE** Decomposition temperature **NOT AVAILABLE Viscosity NOT AVAILABLE Explosive properties NOT AVAILABLE** Oxidising properties

## 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

## 10.2 Chemical stability

**Odour threshold** 

Stable under recommended conditions of storage.

# 10.3 Possibility of hazardous reactions

Polymerization will not occur.

# 10.4 Conditions to avoid

Avoid contact with incompatible substances.

# 10.5 Incompatible materials

Incompatible with acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide) and halogenated hydrocarbons. Contact with moist air may result in the formation of a white coating (zinc oxide) on the metal surface.

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## 10.6 Hazardous decomposition products

May evolve zinc oxides when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute exposure to high levels of zinc can lead to acute gastrointestinal symptoms such as nausea, vomiting, Acute toxicity

abdominal pain, and diarrhea.

Skin Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation due to mechanical

Eye Not classified as an eye irritant. Due to the product form, the potential for exposure is reduced, unless cut or

heated and dust or fumes generated.

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen.

Carcinogenicity Not classified as a carcinogen. Antimony is classified as possibly carcinogenic to humans (IARC Group 2B).

Not classified as a reproductive toxin. Reproductive

STOT - single

Not classified as causing organ damage from single exposure. If heated, over exposure to fumes may result in irritation of the nose and throat, nausea and headache. Freshly formed metal fumes may result in metal exposure

fume fever, a flu-like illness with symptoms including; metallic or sweet taste, dry throat, coughing and tight

STOT - repeated

exposure

Not classified as causing organ damage from repeated exposure. Dust inhalation is not expected due to product form. However, if dust is created, chronic exposure to high dust levels occurs may result in pneumoconiosis. Repeated exposure to antimony may effect the respiratory system resulting in antimony pneumoconiosis (inflammation of the lungs due to irritation caused by the inhalation of dust). Animal studies

have also indicated cardiovascular and kidney damage from repeated exposure.

**Aspiration** Not classified as causing aspiration.

## 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No information provided.

## 12.2 Persistence and degradability

No information provided.

### 12.3 Bioaccumulative potential

All living organisms have homeostasis mechanisms that actively regulate zinc uptake and absorption/excretion from the body. However, bioaccumulation and biomagnification can still occur under certain conditions.

#### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

No information provided.

## 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

Waste disposal Collect and place in sealable containers. Contact the manufacturer/supplier for additional information (if

required).

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



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	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).

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

Labelling of Chemicals (GHS Revision 7).

**AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) Inventory listings** 

All components are listed on AIIC, or are exempt.

# 16. OTHER INFORMATION

#### **Additional information**

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 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.



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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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