

# **SAFETY DATA SHEET**

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name ELECTROGALVANISING PROCESS WASTE WATER

Synonyms PROCESS WASTE WATER

1.2 Uses and uses advised against

Uses WASTE PRODUCT ● WASTE WATER

Process waste water which has been treated with magnesium oxide powder.

1.3 Details of the supplier of the product

Supplier name BLUESCOPE STEEL LIMITED (ABN 16 000 011 058)

Address Level 11, 120 Collins St, Melbourne, VIC, 3000, AUSTRALIA

Telephone 1800 800 789 (Australia Only)

Email steeldirect@bluescopesteel.com

Website http://www.bluescopesteel.com.au

1.4 Emergency telephone numbers

**Emergency** 02 4275 7522 (24h)

# 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Not classified as a Physical Hazard

**Health Hazards** 

Not classified as a Health Hazard

**Environmental Hazards** 

Aquatic Toxicity (Acute): Category 3

2.2 GHS Label elements

Signal word

**Pictograms** 

**Hazard statements** 

H402 Harmful to aquatic life.

Prevention statements

P273 Avoid release to the environment.

Response statements

None allocated.

**Storage statements**None allocated.

Disposal statements

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

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SDS Date: 13 Dec 2023 Revision No: 1

#### 2.3 Other hazards

No information provided

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
CHROMIUM	7440-47-3	231-157-5	<1%
IRON	7439-89-6	231-096-4	<1%
MAGNESIUM	7439-95-4	231-104-6	<1%
ZINC	7440-66-6	231-175-3	<1%
WATER	7732-18-5	231-791-2	Remainder
SULPHATE(S)	-	-	<1%

# 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.

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. Rinse mouth with water.

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 toxic gases if strongly heated.

# 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. Contact emergency services where appropriate.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

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SDS Date: 13 Dec 2023 Revision No: 1

Page 2 of 6

#### 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

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. Check regularly for leaks or spills.

### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference	TWA		STEL	
Ingredient	Iveletetice	ppm	mg/m³	ppm	mg/m³
Chromium Metal	SWA [AUS]		0.5		
Iron oxide fume (Fe2O3) (as Fe)	SWA [AUS]		5		
Iron salts, soluble, as Fe	SWA [AUS]		1		

# **Biological limits**

Ingredient	Reference	Determinant	Sampling Time	BEI
CHROMIUM	ACGIH BEI	Total chromium in urine	End of shift at end of workweek	0.7 µg/L

Page 3 of 6

### 8.2 Exposure controls

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

PPE

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

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

Not required under normal conditions of use. Respiratory





### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

**GREY TO BLUE LIQUID Appearance ODOURLESS** Odour NON FLAMMABLE **Flammability** Flash point **NOT RELEVANT Boiling point** 100°C (Approximately)

**Melting point** < 0°C

AS FOR WATER **Evaporation rate** 

рΗ 7 to 10

Vapour density **NOT AVAILABLE** 

Relative density 1.0 Solubility (water) SOLUBLE

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SDS Date: 13 Dec 2023

Revision No: 1

### 9.1 Information on basic physical and chemical properties

18 mm Hg @ 20°C Vapour pressure NOT RELEVANT **Upper explosion limit** NOT RELEVANT Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE Autoignition temperature NOT AVAILABLE** Decomposition temperature **NOT AVAILABLE Viscosity Explosive properties NOT AVAILABLE** Oxidising properties **NOT AVAILABLE Odour threshold NOT AVAILABLE** 

9.2 Other information

% Volatiles > 60 % (Water)

# 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 is not expected to occur.

### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites) and alkalis (e.g. sodium hydroxide).

# 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

### 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. Raw waste water may contain many bacteria,

viruses and human pathogens.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50	
CHROMIUM	> 5000 mg/kg (rat)		> 5.41 mg/L/4hrs (rat)	
IRON	30000 mg/kg (rat)			

**Skin** Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

Eye Contact may result in mild irritation, lacrimation and redness.

Sensitisation Insufficient data for classification as a skin or respiratory sensitiser.

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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** Not classified as causing organ damage from repeated exposure.

exposure

**Aspiration** Not classified as causing aspiration.

### 12. ECOLOGICAL INFORMATION



SDS Date: 13 Dec 2023 Revision No: 1

### 12.1 Toxicity

Harmful to aquatic life.

### 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

No information provided.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal Waste 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

Not a Marine Pollutant.

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

Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, 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).

ChemAlert.

SDS Date: 13 Dec 2023 Revision No: 1

Page 5 of 6

#### 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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Page 6 of 6



SDS Date: 13 Dec 2023

Revision No: 1