

# **SAFETY DATA SHEET**



# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name AGRAS RANGE

Synonyms AGRAS ◆ AGRAS COPPER ◆ AGRAS COPPER ZINC ◆ AGRAS COPPER ZINC MOLY ◆ AGRAS EXTRA ◆

AGRAS ZINC

1.2 Uses and uses advised against

Uses FERTILISER

1.3 Details of the supplier of the product

Supplier name CSBP LIMITED

Address Kwinana Beach Road, Kwinana, WA, 6167, AUSTRALIA

**Telephone** (08) 9411 8777 **Fax** (08) 9411 8425

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

1.4 Emergency telephone numbers

Emergency 1800 09 3333 (Australia); +61 8 9411 8444

# 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
AMMONIUM SULPHATE	7783-20-2	231-984-1	<70%
MONOAMMONIUM PHOSPHATE	7722-76-1	231-764-5	<50%
ZINC OXIDE	1314-13-2	215-222-5	<2%
COPPER (II) OXIDE	1317-38-0	215-269-1	<1%
MOLYBDENUM TRIOXIDE	1313-27-5	215-204-7	<1%
COBALT (II) SULPHATE HEPTAHYDRATE	10026-24-1	233-334-2	<0.08%
NICKEL SULPHATE	7786-81-4	232-104-9	<0.05%
COATING AGENT	-	-	<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.

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ChemAlert.

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

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

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

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

Normal washroom facilities should be available. First aid facilities

### 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 (phosphorus/ sulphur oxides) when heated to decomposition. May evolve ammonia and nitrogen oxides when heated to decomposition.

### 5.3 Advice for firefighters

No fire or explosion hazard exists. Toxic gases may be evolved in a fire situation.

#### 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. Ventilate area where possible.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.

### 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 moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Do not allow to come in contact with water, either from rain, condensation or the surface on which stored. Bagged fertilisers should be stored under cover and out of direct sunlight (which degrades woven polypropylene packs). If stored in the open, do so for short periods only, and cover with a tarpaulin. If stacking is necessary, bulk bags should be stored in a stable manner, preferably in a pyramidal style. Bulk bags should not be stacked more than two high for bags containing 1 000 kg or more, or more than four high for bags containing up to 500 kg. The Pallet Capacity Rating (design weight) should not be exceeded on the bottom tier for other packs. High stacking should be avoided as pressure promotes caking. Store away from farm chemicals, e.g. insecticides, fungicides and herbicides.

#### 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	Kelefelice	ppm	mg/m³	ppm	mg/m³
Cobalt (metal and inorganic)	SWA [Proposed]		0.02		
Cobalt, metal dust & fume (as Co)	SWA [AUS]		0.05		
Copper (fume)	SWA [AUS]		0.2		
Copper (fume, dusts & mists)	SWA [Proposed]		0.01		
Copper, dusts & mists (as Cu)	SWA [AUS]		1		
Molybdenum, insoluble compounds (as Mo)	SWA [AUS]		10		
Molybdenum, soluble compounds (as Mo)	SWA [AUS]		5		
Nickel, soluble compounds (as Ni)	SWA [AUS]		0.1		
Zinc oxide (dust)	SWA [AUS]		10		
Zinc oxide (fume & dust)	SWA [Proposed]		2		10
Zinc oxide (fume)	SWA [AUS]		5		10

### **Biological limits**

Ingredient	Determinant	Sampling Time	BEI
COBALT (II) SULPHATE HEPTAHYDRATE	Cobalt in urine	End of shift at end of workweek	15 μg/L

Reference: ACGIH Biological Exposure Indices

# 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Use appropriate safe working procedures to reduce the

potential for an inhalation hazard.

**PPE** 

Eye / Face Wear safety glasses.

**Hands** Wear PVC or neoprene 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 LIGHT BROWN GRANULES
Odour ODOURLESS
Flammability NON FLAMMABLE

Flammability
NON FLAMMABLE
Flash point
NOT RELEVANT
Boiling point
NOT AVAILABLE
Melting point
Evaporation rate
pH
4 to 6 (10% Solution)
Vapour density
NOT AVAILABLE

Relative density 0.9 to 1.0

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

NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE

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9.1 Information on basic physical and chemical properties

Decomposition temperature NOT AVAILABLE Viscosity NOT AVAILABLE Explosive properties NOT AVAILABLE Oxidising properties NOT AVAILABLE Odour threshold NOT AVAILABLE

9.2 Other information

Bulk density 1.0 t/m3

# 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 acids (e.g. nitric acid).

#### 10.6 Hazardous decomposition products

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

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity** This product is expected to be of low toxicity. Based on available data, the classification criteria are not met.

#### Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
AMMONIUM SULPHATE	4,250 mg/kg (rat)	> 2000 mg/kg (rat)	
MONOAMMONIUM PHOSPHATE	5,750 mg/kg (rat)	> 7,940 mg/kg (rabbit)	
ZINC OXIDE	7950 mg/kg (mouse)		2500 mg/m³ (mouse)
COPPER (II) OXIDE	> 2500 mg/kg (rat)	> 2000 mg/kg (rat)	
MOLYBDENUM TRIOXIDE	2689 mg/kg (rat)	> 2000 mg/kg (rat)	> 5.84 mg/L (rat)
COBALT (II) SULPHATE HEPTAHYDRATE	424 mg/kg (rat)		
NICKEL SULPHATE	275 - 500 mg/kg		2.48 mg/L (rat)

Skin Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation.Eye Not classified as an eye irritant. Contact may result in mild irritation, lacrimation and redness.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen. This product contains trace amounts of nickel sulphate (below that to require

classification).

Carcinogenicity Not classified as a carcinogen. Nickel compounds are classified as carcinogenic to humans (IARC Group 1).

Cobalt and cobalt compounds are classified as possibly carcinogenic to humans (IARC Group 2B).

Reproductive Not classified as a reproductive toxin. Cobalt (II) sulphate heptahydrate is classified as damaging to fertility

(below that to require classification). Nickel sulphate may damage the unborn child (below that to require

classification).

STOT - single

exposure

Not classified as causing organ damage from single exposure. However, over exposure may result in irritation of the nose and throat, with coughing.

STOT - repeated

Not classified as causing organ damage from repeated exposure.

exposure

**Aspiration** Not classified as causing aspiration.



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# 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No information provided.

### 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 Collect without generating dust. Place in clean, sealed containers and dispose of to an approved landfill site.

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

	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



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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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