Safety Data Sheet
according to WHS Regulations

Printing date 10.10.2018 *Version number 1* *Revision: 10.10.2018*

1 Identification

· **Product identifier**

· **Trade name: Omni Red**

· **Article number:** DK120
· **Relevant identified uses of the substance or mixture and uses advised against**
For use in the agricultural sector.
· **Technical function** Fertilizers (soil amendments)
· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Company: Omnia Specialities Australia Pty Ltd
Address: Tramway Road
MORWELL VIC 3840
Telephone Number: +61-3 5133 9118
Facsimile Number: +61-3 5133 9114

· **Further information obtainable from:** info@omnia.net.au
· **Emergency telephone number:**
ISS First Response
03 8769 3688

2 Hazard(s) Identification

· **Classification of the substance or mixture**

Eye Irrit. 2A	H319	Causes serious eye irritation.
Acute Tox. 5	H303	May be harmful if swallowed.
Acute Tox. 5	H333	May be harmful if inhaled.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The substance is classified and labelled according to Safe Work Australia GHS Hazardous Chemical Information List
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS07

· **Signal word** Warning
· **Hazard statements**
H303 May be harmful if swallowed.
H333 May be harmful if inhaled.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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P103	Read label before use.
P273	Avoid release to the environment.
P280	Wear eye protection / face protection.
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· **Chemical characterisation: Mixtures**
· **Description:** Mixture containing the following components

· **Dangerous components:**			
CAS: 6484-52-2 EINECS: 229-347-8	Ammonium Nitrate	Ox. Sol. 3, H272 Eye Irrit. 2A, H319 Acute Tox. 5, H303	10-25%
CAS: 1319-33-1	Ulexite	Repr. 1B, H360FD	≤2.5%
CAS: 1314-13-2 EINECS: 215-222-5	ZINC OXIDE	Aquatic Chronic 1, H410	≤2.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.
· **Other hazards that do not result in classification** None

4 First Aid Measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Flush affected areas with plenty of water and soap.
· **After eye contact:**
Rinse opened eye under running water for at least 15 minutes. Get medical attention if irritation persists.
· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **Information for doctor:**
Treat supportive and symptomatically
Check for hyperkalemia and treat ECG changes aggressively (ie Kayexelate)
Check for hypercalcemia
Monitor vital signs, blood pressure, respiration and onset of cyanosis. Administer oxygen if there are clinical signs of methemoglobinaemia. Methylene blue is the specific antidote indicated in case of methaemoglobinemia.
· **Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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5 Fire Fighting Measures

· ***Extinguishing media***
· ***Suitable extinguishing agents:***
Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam. Dry fire-extinguishing substance.
· ***Special hazards arising from the substance or mixture***
In case of fire, the following can be released:
Metal oxide fumes
Nitrogen oxides (NOx)
Phosphorus oxides (PxOy)
Sulphur oxides (SOx)
· ***Advice for firefighters***
Material not combustable
May support fire in absence of air
· ***Protective equipment:*** *Mouth respiratory protective device.*

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· ***Environmental precautions:***
Contain material
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water. Should not be released into the environment.
· ***Methods and material for containment and cleaning up:***
Pick up mechanically, sweep and shovel into containers. Re-use if not contaminated. If contaminated, store in suitable containers for disposal.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
· ***Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

· ***Handling:***
· ***Precautions for safe handling***
Thorough dedusting.
Prevent formation of dust.
· ***Information about fire - and explosion protection:***
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Observe the rules usually applicable when handling chemicals.
· ***Information about storage in one common storage facility:*** *Not required.*
· ***Further information about storage conditions:*** *Keep container tightly sealed in a dry well-ventilated place.*
· ***Specific end use(s)*** *Agricultural*

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8 Exposure controls and personal protection

· **Additional information about design of technical facilities:**
Ensure eyewash stations and safety showers are close to the workstation location.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
1314-13-2 ZINC OXIDE	
WES	Short-term value: 10** mg/m³ Long-term value: 10* 5** mg/m³ *dust **fume

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

Form:	Crystals, granular or powder
Colour:	Red
· **Odour:**	Odourless
· **Odour threshold:**	Not determined.

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· **pH-value:**	Not applicable.
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	1,689 °C
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Contact with combustible material may cause fire.
· **Ignition temperature:**	
Decomposition temperature:	Not determined.
· **Auto-ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density:**	Not determined.
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water:**	Partly soluble.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· **Solvent content:**	
VOC (EC)	0.00 %
Solids content:	100%
· **Other information**	No further relevant information available.

10 Stability and Reactivity

· **Reactivity** Stable under normal conditions
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** Avoid extreme temperatures.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**
Metal oxide fumes
Nitrogen oxides (NOx)
Phosphorus oxides (e.g. P2O5)
Sulphur oxides (SOx)

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11 Toxicological Information

· **Information on toxicological effects**
· **Acute toxicity**

· **LD/LC50 values relevant for classification:**		
7778-80-5 Potassium sulphate		
Oral	LD50	6,600 mg/kg (rat)
6484-52-2 Ammonium Nitrate		
Oral	LD50	2,217 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50 4 h	89 mg/l (rat)
1314-13-2 ZINC OXIDE		
Oral	LD50	>5,000 mg/kg (rat)

· **Primary irritant effect:**
· **Skin corrosion/irritation** Caustic effect on skin and mucous membranes.
· **Serious eye damage/irritation** Strong caustic effect.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
7778-80-5 Potassium sulphate	
LC50 48 hours	890 mg/L (dap)
LC50 96 hours	796 mg/L (Fish)
6484-52-2 Ammonium Nitrate	
EC50 24 h	125 mg/l (Daphnia magnus)
EC50 48 h	18.7 mg/l (Algae)

· **Persistence and degradability**
This product is a fertiliser and will react in the soil as such.
The substance is inorganic; therefore no biodegradation tests are applicable
· **Behaviour in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Harmful to aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Wear full safety equiment at all times. Pick up mechanically, sweep and shovel into containers. Re-use if not contaminated. Store contaminated material in suitable containers for disposal.
Disposal according to local regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**	
· **ADG, ADN, IMDG, IATA**	Void
· **UN proper shipping name**	
· **ADG, ADN, IMDG, IATA**	Void
· **Transport hazard class(es)**	
· **ADG, ADN, IMDG, IATA**	
· **Class**	Void
· **Packing group**	
· **ADG, IMDG, IATA**	Void
· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Not applicable.
· **Stowage Category**	E
· **ERG No.**	None
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**	
7778-80-5	Potassium sulphate
	Calcium dihydrogen Phosphate
10101-41-4	Gypsum
57-13-6	UREA GRANULAR
1319-33-1	Ulexite
1314-13-2	ZINC OXIDE

· **Standard for the Uniform Scheduling of Medicines and Poisons**
None of the ingredients is listed.

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H272 May intensify fire; oxidiser.
H303 May be harmful if swallowed.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Ox. Sol. 3: Oxidizing solids – Category 3
Acute Tox. 5: Acute toxicity – Category 5
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Repr. 1B: Reproductive toxicity – Category 1B
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3