Safety Data Sheet
according to GHS version 7

Printing date 08.09.2022 *Version number 1* *Revision: 08.09.2022*

1 Identification

· **Product identifier**

· **Trade name: Omni Seed Zinc**

· **Article number:** DAUP0012
· **Relevant identified uses of the substance or mixture and uses advised against** For use in the agricultural sector.
· **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
+61 3 8796 3688

2 Hazard(s) Identification

· **Classification of the substance or mixture**

corrosion

Eye Dam. 1 H318 Causes serious eye damage.

environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Acute Tox. 5 H303 May be harmful if swallowed.

· **Label elements**
· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS05 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Zinc Sulphate monohydrate

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· ***Hazard statements***
H303 May be harmful if swallowed.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.
· ***Precautionary statements***
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid release to the environment.
Wear eye protection / face protection.
IF SWALLOWED: Call a doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
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 of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 7446-20-0 *EINECS: 231-793-3*	*Zinc Sulphate monohydrate* *Eye Dam. 1, H318* *Aquatic Acute 1, H400; Aquatic Chronic 1, H410* *Acute Tox. 4, H302* *Acute Tox. 5, H313*	*25-50%*

· ***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:***
Do not leave affected persons unattended.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident
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 and wash skin with plenty of water. Obtain medical attention.
· ***After eye contact:***
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
· ***After swallowing:***
Do not induce vomiting.
If the person is conscious, wash out mouth with water and give 2 or 3 glasses of water to drink.
Obtain immediate medical attention.

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· ***Information for doctor:*** *Treat supportive and symptomatically*
· ***Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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***
If liquid boils dry, salts in fire will produce harmful gasses.
Metal oxide fumes
Sulphur oxides (SOx)
· ***Advice for firefighters*** *Material not combustable*
· ***Protective equipment:*** *Use breathing apparatus with independent air supply*

6 Accidental Release Measures

· ***Personal precautions, protective equipment and emergency procedures***
Wear protective clothing according to section 8.
Do not let unprotected persons near the spilled material.
· ***Environmental precautions:***
Prevent from spreading by e.g. damming in.
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.
· ***Methods and material for containment and cleaning up:***
Prevent further spreading by damming-in.
Collect the product mechanically (vacuum or pump). Deposit in recipient for recuperation.
Uncontaminated spilled material may be reused
Dispose contaminated material as waste according to item 13.
· ***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***
Ensure good ventilatation / exhuastion at the workplace
Prevent the formation of earosols
Wear personal protective clothing according to section 8
· ***Information about fire - and explosion protection:***
The product is not flammable.
No special measures required

· ***Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
Observe the rules usually applicable when handling chemicals.

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· ***Information about storage in one common storage facility:***
Store away from foodstuffs.
Store locked up
Dry and tightly closed
· ***Further information about storage conditions:***
Keep container tightly sealed in a dry well-ventilated place.
Keep separate from food and feed products.
Store under lock and key and out of the reach of children.
· ***Specific end use(s)*** *Agricultural*

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:***
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
· ***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.
Keep out of reach of children
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
· ***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*

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Colour:	Yellow
· **Odour:**	Odourless
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	5.26
· **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
· **Flash point:**	Not applicable.
· **Flammability (solid, gas):**	Not applicable.
· **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 at 20 °C:**	23 hPa
· **Density at 20 °C:**	1.29 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	Fully miscible.
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	60.2 %
VOC (EC)	0.00 %
· **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.
· **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:**
Metal oxide fumes
Sulphur oxides (SOx)

11 Toxicological Information

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

· **LD/LC50 values relevant for classification:**		
7446-20-0 Zinc Sulphate monohydrate		
Oral	LD50	1,260 mg/kg (rat)
Dermal	LD50	>2,000 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**
Sensitisation possible through inhalation.
Sensitisation possible through skin contact.
· **Additional toxicological information:**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
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:
Harmful
Corrosive
Irritant
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** None

*
12 Ecological Information

· **Toxicity**

· **Aquatic toxicity:**	
7446-20-0 Zinc Sulphate monohydrate	
LC 50 96hr immersed	0.33 mg/l (Pimephales promelas (Fathead Minnow))
EC50 24 h (dynamic)	0.56 mg/l (Algae (Chlorella vulgaris))
	0.6 mg/l (Daphnia Magna)
EC50 96 hr (dynamic)	0.56 mg/L (Algae (Chlorella vulgaris))
EC50 48hr	0.6 mg/l (Daphnia Magna)
LC50 48 hours	0.33 mg/L (Pimephales promelas (Fathead Minnow))

· **Persistence and degradability**
This product is a ferilizer and act in the soil as such
The substance is inorganic, therefore biodegradable tests are not applicable
· **Behaviour in environmental systems:**

· **Bioaccumulative potential**	
Bioaccumulate	112 (,)

7446-20-0 Zinc Sulphate monohydrate	
Bioaccumulate	112 (Not Applicable)

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· **Mobility in soil**	
7446-20-0 Zinc Sulphate monohydrate	
Koc	6.124 (Soil)

· ***Ecotoxical effects:***
· ***Remark:*** *Very toxic for fish*
· ***Additional ecological information:***
· ***General notes:***
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· ***Results of PBT and vPvB assessment***
· ***PBT:*** *Not applicable.*
· ***vPvB:*** *Not applicable.*
· ***Other adverse effects*** *No further relevant information available.*

*
13 Disposal considerations

· ***Waste treatment methods***
· ***Recommendation*** *Disposal according to local/ official/ national regulations.*

· ***Uncleaned packaging:***
· ***Recommendation:*** *Disposal must be made according to official regulations.*
· ***Recommended cleansing agents:*** *Water, if necessary together with cleansing agents.*

*
14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	*UN3082*
· **UN proper shipping name**	
· **ADG**	*UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulphate monohydrate)*
· **IMDG**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulphate monohydrate), MARINE POLLUTANT*
· **IATA**	*ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Sulphate monohydrate)*

· ***Transport hazard class(es)***

· ***ADG***

· ***Class*** *9 (M6) Miscellaneous dangerous substances and articles.*

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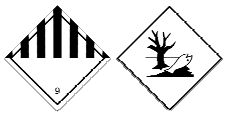
· **Label**	9
· **IMDG, IATA**	
· **Class**	9 Miscellaneous dangerous substances and articles.
· **Label**	9
· **Packing group**	
· **ADG, IMDG, IATA**	III
· **Environmental hazards:**	Product contains environmentally hazardous substances: Zinc Sulphate monohydrate
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADG):**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **ERG No.**	None
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **Transport/Additional information:**	3.3.3AUSTRALIAN SPECIAL PROVISIONS The Special Provisions in this Section 3.3.3 are peculiar to this Code and are therefore not applicable to international transport, or to air or sea transport within Australia. SP No. AU01Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a)packagings that do not incorporate a receptacle exceeding 500 kg(L); or (b)IBCs.
· **ADG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· ***UN "Model Regulation":*** *UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC SULPHATE MONOHYDRATE), 9, III*

*
15 Regulatory information

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

· ***Australian Inventory of Industrial Chemicals***	
	Water
7446-20-0	*Zinc Sulphate monohydrate*

· ***Standard for the Uniform Scheduling of Medicines and Poisons***

None of the ingredients is listed.

· ***Australia: Priority Existing Chemicals***

None of the ingredients is listed.

· ***GHS label elements*** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
· ***Hazard pictograms***

GHS05 GHS09

· ***Signal word*** *Danger*

· ***Hazard-determining components of labelling:***
Zinc Sulphate monohydrate
· ***Hazard statements***
H303 May be harmful if swallowed.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.
· ***Precautionary statements***
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read carefully and follow all instructions.
Avoid release to the environment.
Wear eye protection / face protection.
IF SWALLOWED: Call a doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I*** *None of the ingredients is listed.*
· ***Seveso category*** *E1 Hazardous to the Aquatic Environment*
· ***Qualifying quantity (tonnes) for the application of lower-tier requirements*** *100 t*
· ***Qualifying quantity (tonnes) for the application of upper-tier requirements*** *200 t*
· ***Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

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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***
H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
· ***Contact:***
· ***Abbreviations and acronyms:***
ADR: Accord relatif au transport international 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
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
· **** Data compared to the previous version altered.***