Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 *Version number 1* *Revision: 16.03.2023*

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1 Identification

· **Product identifier**

· **Trade name: K-Humate S100 Granular**

· **Article number:** DKJ0103
· **CAS Number:**
68514-28-3
· **EC number:**
271-030-1
· **Relevant identified uses of the substance or mixture and uses advised against**
The substance is intended to be used as fertiliser, plant growth stimulant and soil conditioner. It is not intended for human consumption and application on solid oxidizing fertilizer should be limited.
· **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

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2 Hazard(s) Identification

· **Classification of the substance or mixture**
Acute Tox. 5 H303 May be harmful if swallowed.

· **Label elements**
· **GHS label elements**
The substance is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms** Void
· **Signal word** Warning
· **Hazard statements**
H303 May be harmful if swallowed.
· **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.
IF SWALLOWED: Call a doctor if you feel unwell.
· **Information concerning particular hazards for human and environment:**
May slightly irritate skin, may irritate eyes and may irritate the intestinal tract. Release into natural water systems in large quantities may harm aquatic life.
· **Other hazards**
Combining with solid oxidizing fertilizers may increase the hazardousness of the fertilizer and result in its classification as explosive material.
Treat the material like coal dust. It can ignite and burn.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

(Contd. on page 2)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 Version number 1 Revision: 16.03.2023

Trade name: K-Humate S100 Granular

(Contd. of page 1)

· **vPvB:** Not applicable.

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3 Composition and Information on Ingredients

· **Chemical characterisation: Substances**
· **CAS No. Description**
68514-28-3 K-HUMATE Granular
· **Identification number(s)**
· **EC number:** 271-030-1
· **Additional information:** ATE > 2000 mg/kg

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4 First Aid Measures

· **Description of first aid measures**
· **General information:** Product is alkaline and contais small amounts of KOH.
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:**
Immediately rinse with water untill clean.
First responder should where protective gear and not come into contact with alkaline material.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
First responder should where protective gear and not come into contact with alkaline material.
· **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.
· **Information for doctor:** Contains potassium hydroxide.
· **Most important symptoms and effects, both acute and delayed**
The product is alkaline and may irritate gastro-intestinal tract, eyes and skin.
· **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:** CO2, powder or water.
· **For safety reasons unsuitable extinguishing agents:** No unsuitable fire extinguishing agents
· **Special hazards arising from the substance or mixture**
In case of fire or during heating, poisonous gases are produced.
If dust forms it may cause dust explosions
· **Advice for firefighters** Do not allow run-off from fire to enter sewers or water ways.
· **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

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6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective gear. Do not inhale the material or its combustion products. Go against the wind and keep out of low areas. Evacuate personnel to safe area. Ensure adequate ventilation.
· **Environmental precautions:**
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:**
Collect the product mechanically . Deposit in recipient for recuperation.

(Contd. on page 3)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 Version number 1 Revision: 16.03.2023

Trade name: K-Humate S100 Granular

(Contd. of page 2)

· **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.

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7 Handling and Storage

· **Handling:**
· **Precautions for safe handling**
Avoid contact with skin, eyes and clothing.
Do not eat, drink or smoke in the work place.
Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
Dust mask and gloves recommended during handling of product.
· **Information about fire - and explosion protection:** Keep away from sources of ignition - no smoking.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store in cool, dry, well ventilated space
Have eye wash stations and safety shower nearby.
· **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with oxidising and acidic materials.
· **Further information about storage conditions:** Protect from heat and direct sunlight.
· **Specific end use(s)** Agricultural

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8 Exposure controls and personal protection

· **Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:** Not required.
· **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.
· **Protection of hands:**

Wear 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.
· **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:**
Avoid eye contact with this material. As a minimum safety glasses with side shields should be worn. If potential for dust exposure exists, dust resistant chemical safety goggles should be worn additionally.
· **Body protection:** Protective work clothing

(Contd. on page 4)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 Version number 1 Revision: 16.03.2023

Trade name: K-Humate S100 Granular

(Contd. of page 3)

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Granulate
Colour:	Dark brown
· **Odour:**	Earthy
· **Odour threshold:**	Not determined.
· **pH-value:**	11.4
· **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:**	Not determined.
· **Explosive properties:**	Not determined.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapour pressure:**	Not applicable.
· **Density at 20 °C:**	1.1 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not applicable.
· **Evaporation rate**	Not applicable.
· **Solubility in / Miscibility with water:**	148 g/kg @ 0 °C
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solids content:	100.0 %
· **Other information**	Mixing product with solid oxidizers may result in re-classification of oxidizers as explosives. Product may form a sludge when mixed with divalent cations and when the the pH is decreased.

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10 Stability and Reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
May start to burn when heated. May release toxic fumes when heated.
· **Possibility of hazardous reactions**
High temperatures may ignite
Reacts with strong acids and oxidising agents.
· **Conditions to avoid** Incompatibles and extreme temperatures
· **Incompatible materials:**
Oxidising Agents

(Contd. on page 5)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 Version number 1 Revision: 16.03.2023

Trade name: K-Humate S100 Granular

(Contd. of page 4)

Acids
· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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11 Toxicological Information

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

· **LD/LC50 values relevant for classification:**		
68514-28-3 K-HUMATE Granular		
Oral	LD50	>2,000 mg/kg (rat) This is an estimated value, based on less than 0.5% KOH in solution

· **Primary irritant effect:**
· **Serious eye damage/irritation** No irritating effect.

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12 Ecological Information

· **Toxicity**
· **Aquatic toxicity:**
This material has a high pH and release of large volumes into aquatic systems may raise the pH resulting in harm to aquatic life.
· **Persistence and degradability** No further relevant information available.
· **Behaviour in environmental systems:**
Humic substances are some of the most recalcitrant forms of soil organic matter and may therefore biodegrade only slowly and may also accumulate in soil. As potassium humate is water soluble, it may be mobile and may leach through soil. The presence of clay material or calcium and other divalent cations, is likely to retards its movement
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **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.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
If the fertilizer is not contaminated, recycle it. If contaminated, consult with specialists.

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

(Contd. on page 6)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 Version number 1 Revision: 16.03.2023

Trade name: K-Humate S100 Granular

(Contd. of page 5)

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14 Transport information

· **UN-Number**	
· **ADG, IMDG, IATA**	Void
· **UN proper shipping name**	
· **ADG, 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.
· **ERG No.**	None
· **Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Australian Inventory of Industrial Chemicals**
Substance is not listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**
Substance is not listed.

· **Australia: Priority Existing Chemicals**
Substance is not listed.

· **GHS label elements**
The substance is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms** Void
· **Signal word** Warning
· **Hazard statements**
H303 May be harmful if swallowed.
· **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.
IF SWALLOWED: Call a doctor if you feel unwell.
· **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.

· **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

(Contd. on page 7)

Safety Data Sheet
according to GHS version 7

Printing date 16.03.2023 *Version number 1* *Revision: 16.03.2023*

Trade name: K-Humate S100 Granular

(Contd. of page 6)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 5: Acute toxicity – Category 5
· **** Data compared to the previous version altered.***