Safety Data Sheet
according to GHS version 7

Printing date 24.02.2023 *Version number 3* *Revision: 24.02.2023*

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1 Identification

· **Product identifier**

· **Trade name: K-HUMATE 26%**

· **Article number:** DKJ010
· **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. Mixing the substance with Ca or other divalent cations or decreasing its pH may cause it to form sludge.
· **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 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.
Once material has dried and turned into powder, treat the powder like coal dust. It can ignite and burn.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition and Information on Ingredients

· **Chemical characterisation: Substances**
· **CAS No. Description**
68514-28-3 K-HUMATE 26%
· **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.
No special measures required.
· **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:**
First responder should where protective gear and not come into contact with alkaline material.
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.
· **Information for doctor:**
Treat supportive and symptomatically
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:**
Use fire extinguishing methods suitable to surrounding conditions. Water spray jet, foam, or dry fire-extinguishing substance.
· **For safety reasons unsuitable extinguishing agents:** No unsuitable fire extinguishing agents
· **Special hazards arising from the substance or mixture**
If liquid boils dry, harmfull gasses will be produced and resultant dry material may be more combustable
· **Advice for firefighters**
Do not allow run-off from fire to enter sewers or water ways.
Once boiled dry material may burn as easily as charcoal and may cuase dust explosions.
· **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 equipment. Keep unprotected persons away.
· **Environmental precautions:**
Prevent from spreading by e.g. damming in.
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.

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When material spilled on soil, material likely to partially enter soil. In this case collect such soil also.

· **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:**
Protect from heat sources as drying up of this material may release dust that can form dust explosions. Dried material may also burn like charcoal.
Keep ignition sources away - Do not smoke.

· **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.
Store in sealed containers. Store bunded when reasonable.
· **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.
Store and transport in sealed containers below 40°C and above -10°C.
· **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:** 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.
· **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

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· **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:** Safety glasses.
· **Body protection:** Protective work clothing
· **Limitation and supervision of exposure into the environment**
Avoid uncontrolled release into the environment by keeping material in sealed containers and by bunding where reasonable.

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9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
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 determined.
· **Density at 20 °C:**	1.1 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with water:**	148 g/kg @ 0 °C
· **Partition coefficient: n-octanol/water:**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.

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· ***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***
Reacts with calcium and divalent cations to form sludge
Reacts with acids to form a sludge
· ***Chemical stability***
· ***Thermal decomposition / conditions to be avoided:*** *May dry out and burn with extreme heating.*
· ***Possibility of hazardous reactions***
High temperatures may ignite
Reacts with strong acids and oxidising agents.
· ***Conditions to avoid*** *Incompatibles and extreme temperatures*
· ***Incompatible materials:*** *Incompatible with oxidizers, acids, Calcium ions and divalent cations.*
· ***Hazardous decomposition products:*** *Carbon monoxide and carbon dioxide*
· ***Additional information:***
When heated to dryness dust that may form may result in dust explosions. May burn like charcoal once dry.

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11 Toxicological Information

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

· ***LD/LC50 values relevant for classification:***		
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.*
· ***Other information (about experimental toxicology):***
Product has a high pH and contains small amoiunts of KOH and as a result may irritate skin, eyes and the intestinal tract.

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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

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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:** Wash thoroughly with water and soap prior to reuse.

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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** · **ERG No.**	Not applicable. 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

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· ***Hazard statements***
H303 May be harmful if swallowed.
· ***Precautionary statements***
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
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.***