1 Identification

· Product identifier
  · Trade name: K-Humate S100
  · Article number: DK005
  · CAS Number: 68514-28-3
· Relevant identified uses of the substance or mixture and uses advised against
  Fertilizer, plant growth stimulant and soil conditioner.
· 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 8796 3688

2 Hazard(s) Identification

· Classification of the substance or mixture
  Acute Tox. 4 H302 Harmful if swallowed.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
· Label elements
  · GHS label elements
    The substance is classified and labelled according to the Globally Harmonised System (GHS).
  · Hazard pictograms
    GHS07
· Signal word Warning
  · Hazard-determining components of labelling:
    Granular K-HumateHumates, Humic acid, potassium humate
  · Hazard statements
    H302 Harmful if swallowed.
    H315 Causes skin irritation.
    H319 Causes serious eye irritation.
  · Precautionary statements
    If medical advice is needed, have product container or label at hand.
    Keep out of reach of children.
    Read label before use.

(Contd. on page 2)
Trade name: K-Humate S100

(Contd. of page 1)

Wear protective gloves / eye protection / face protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
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: Substances
- CAS No. Description
  68514-28-3 Granular K-Humate Humates, Humic acid, potassium humate

* 4 First Aid Measures

- Description of first aid measures
  - After inhalation:
    Remove to fresh air at once. In case of unconsciousness, place patient stably in the side position for transportation.
    Moderate irritant. Call for a doctor.
  - After skin contact:
    Immediately rinse with water.
  - After eye contact:
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    Call for a doctor immediately. Do not induce vomiting. Rinse mouth with water (only if person is conscious).
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed Contains potassium hydroxide
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

* 5 Fire Fighting Measures

- Extinguishing media
  - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
  - Special hazards arising from the substance or mixture
    Dust may form explosive mixture with air
    In case of fire or during heating, poisonous gases are produced.
- Advice for firefighters
  - Protective equipment: Use breathing apparatus with independent air supply (Isolated)

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- 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:
  Dispose contaminated material as waste according to item 13.
- Reference to other sections
  See Section 7 for information on safe handling.

(Contd. on page 3)
7 Handling and Storage

- Handling:
  - Precautions for safe handling: Prevent formation of dust.
  - Information about fire - and explosion protection:
    Keep ignition sources away - Do not smoke.
    Protect from heat.

- 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:
      Do not store together with oxidising and acidic materials.
    - Further information about storage conditions: Protect from heat and direct sunlight.
    - Specific end use(s): No further relevant information available.

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.
      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.

- 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.
9 Physical and Chemical Properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Granulate
      - Colour: Dark brown
      - Odour: Odourless
      - 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): Product is not flammable.
  - 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: Not determined.
  - Relative density: Not determined.
  - Vapour density: Not applicable.
  - Evaporation rate: Not applicable.
  - Solubility in / Miscibility with water: Soluble.
  - Partition coefficient: n-octanol/water: Not determined.
  - Viscosity:
    - Dynamic: Not applicable.
    - Kinematic: Not applicable.
  - Solids content: 100.0 %
  - Other information: No further relevant information available.

10 Stability and Reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: May decompose on heating
  - Possibility of hazardous reactions: No dangerous reactions known.
· Conditions to avoid: Incompatibilities and extreme temperatures
  · Incompatible materials:
    · Strong acids
    · Oxidising Agents
  · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological Information

· Information on toxicological effects
  · Acute toxicity

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>68514-28-3 Granular K-HumateHumates, Humic acid, potassium humate</td>
</tr>
<tr>
<td>Oral LD50 1,786 mg/kg (rat)</td>
</tr>
</tbody>
</table>

This is an estimated value, based on less than 2% KOH in solution

· Primary irritant effect:
  · Skin corrosion/irritation: Irritant to skin and mucous membranes.
  · Serious eye damage/irritation: Irritating effect.
  · Respiratory or skin sensitisation: No sensitising effects known.

12 Ecological Information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability: No further relevant information available.

· Behaviour in environmental systems:
  · 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.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: 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.
  · Recommended cleansing agents: Water, if necessary together with cleansing agents.
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: 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

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Australian Inventory of Chemical Substances
    - 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
  - GHS07

- Signal word Warning

- Hazard-determining components of labelling:
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- Hazard statements
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  - Keep out of reach of children.
  - Read label before use.
  - Wear protective gloves / eye protection / face protection.
  - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - Rinse mouth.
Trade name: K-Humate S100

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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.

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
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. 4: Acute toxicity - oral – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

* Data compared to the previous version altered.