

**Section 1 - Identification of Chemical Product and Company****PRODUCT NAME:** POTASSIUM HUMATE PREPARATION**Description:** Liquid humate preparation for soil improvement**Statement of Hazardous Nature**

This product is **not** classified as hazardous according to the criteria of NOHSC Australia. Nevertheless, it should be regarded as potentially irritating to eyes and skin.

This product is not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

**Distributed by**

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**Substance:**

Black viscous liquid being a crude potassium humate solution derived from reed sedge peat.

**Product Use:**

Source of organic carbon and chelating / cation exchange capacity in soil. Also used as a stimulant of plant root growth and general plant tissue growth.

**MSDS Information:**

**Creation Date:** August, 2004

**Revision Date:** May, 2005

**Section 2 – Composition/Information on Ingredients**

Ingredients	CAS No	Conc,%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Potassium humate	68514-28-3	12 approx	not set	not set
Water	7732-18-5	88	not set	not set

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

### Section 3 - Hazards Identification

<b>Risk Phrases:</b>	R36/38 - Irritating to eyes and skin.
<b>Safety Phrases:</b>	Not Hazardous - no criteria found.
<b>SUSDP Classification:</b>	None allocated.
<b>ADG Classification:</b>	None allocated - not a Dangerous Good.
<b>UN Number:</b>	None allocated

### Emergency Overview

<b>Physical Description &amp; colour:</b>	Dark brown or black viscous, water soluble liquid.
<b>Odour:</b>	Mild, pleasant earthy odour.
<b>Major Health Hazards:</b>	No major health hazards are known.

### Potential Health Effects

#### Inhalation

**Short term exposure:** Given the viscosity of the solution, exposure via inhalation is extremely unlikely.

**Long Term exposure:** Unlikely. No data for health effects associated with long term inhalation.

#### Skin Contact:

**Short term exposure:** R36/38 - Irritating or potentially irritating to eyes and skin.

**Long Term exposure:** Unlikely. No data for health effects associated with long term skin contact.

#### Eye Contact:

**Short term exposure:** R36/38 - Irritating or potentially irritating to eyes and skin.

**Long Term exposure:** Unlikely. No data for health effects associated with long term eye contact.

#### Ingestion:

**Short term exposure:** Unlikely, although specific data not available. However, ingestion may result in gastric disturbances, irritation and nausea.

**Long Term exposure:** No data for health effects associated with long term ingestion.

#### Carcinogen Status:

**NOHSC:** No significant ingredient is classified as carcinogenic by NOHSC.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 4 - First Aid Measures

### General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia and is available at all times. Have this MSDS with you when you call.

### Contact or Poisoning:

From the available evidence, this product would appear to offer **little significant health hazard** except by eye or skin exposure. **First Aid involves simply extensive flushing of the affected area with water.** If in doubt, contact a Poisons Information Centre or a doctor.

## Section 5 – Fire Fighting Measures

### Fire and Explosion Hazards:

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

### Extinguishing Media:

Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

### Fire Fighting:

Flash point:	No data
Upper Flammability Limit:	No data.
Lower Flammability Limit:	No data.
Autoignition temperature:	No data.
Flammability Class:	No data.

## Section 6 – Accidental Release Measures

**Accidental release:** Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear overalls, goggles and gloves when handling this material. Suitable materials for protective clothing include cotton, rubber, PVC. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material should be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal.

## Section 7 – Handling and Storage

**Handling:** Individuals with sensitive skin should check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store packages of this product in a cool, dry place. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.

## Section 8 Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

<b>Exposure Limits</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
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Exposure limits have not been established by NOHSC for this product.

### **Ventilation:**

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and dry and that dusts are minimised.

### **Eye Protection:**

Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles.

### **Skin Protection:**

Routinely avoid contact with all chemical products. Wear overalls, goggles and gloves when handling this material. Suitable materials for protective clothing include cotton, rubber, PVC.

### **Protective Material Types:**

Suitable materials for protective clothing include cotton, rubber, PVC.

### **Respirator:**

Not likely to be required.

## Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	Dark brown or black viscous water soluble liquid.
<b>Odour:</b>	Mild, pleasant earthy odour.
<b>Boiling Point:</b>	No data.
<b>Freezing/Melting Point:</b>	No data.
<b>Volatiles:</b>	No data.
<b>Vapour Pressure:</b>	2.37 kPa at 20°C (water vapour pressure).
<b>Vapour Density:</b>	No data.
<b>Specific Gravity:</b>	No data.
<b>Water Solubility:</b>	No data.
<b>pH:</b>	10.9 – 11.7
<b>Volatility:</b>	No data.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	No data.
<b>Coeff Oil/water distribution:</b>	No data
<b>Autoignition temp:</b>	No data.

## Section 10 – Stability and Reactivity

### Reactivity:

This product is unlikely to decompose under normal storage conditions.

### Conditions to Avoid:

Exposure to strong acids or concentrated solutions of calcium, magnesium or zinc may cause precipitation of humic substances from this solution.

### Incompatibilities:

Strong acids. Concentrated solutions of calcium, magnesium or zinc.

### Fire Decomposition:

Unlikely, given that this material is an aqueous solution.

### Polymerisation:

This product is unlikely to undergo polymerisation processes.

## Section 11 – Toxicological Information

### Target Organs:

Mist from this product may cause lung and mucous membrane irritation.

## Classification of Hazardous Ingredients

**Ingredient****Risk Phrases**

No hazardous ingredients present in hazardous concentrations.

### Section 12 – Ecological Information

This product is natural and biodegradable.

It has no long term adverse environmental effects.

### Section 13 – Disposal Considerations

**Disposal:**

Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site. This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Please do NOT dispose into sewers or waterways.

### Section 14 – Transport Information

**ADG Code:**

This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

### Section 15 – Regulatory Information

**AICS:**

Being a natural soil derivative, this product has not been listed with the AICS.

**Section 16 – Other Information**

**This MSDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Number</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phrase</b>	Risk Phrase
<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs & Poisons
<b>UN Number</b>	United Nations Number

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.