

Safety Data Sheet
Created accoring to GHS

Printing date 05/24/2023


Reviewed on 05/24/2023

1 Identification

- **Product identifier**
- **Trade name:** K-Humate S100 Granular
- **Article number:** DKJ0106
- **CAS Number:**
68514-28-3
- **EC number:**
271-030-1
- **Application of the substance / the mixture**
The substance is intended to be used as fertiliser, plant growth stimulant and soil conditioner.
- **Uses advised against**
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:**
Omnia Specialties, Inc.
9605 W 49th Ave Ste 201
Wheat Ridge
CO 80033
Afterhours and toll-free number: (800)760-8402
Office number: (720) 932-1610
- **Information department:**
info@omniausa.org
+1-800-760-8402
- **Emergency telephone number:** ChemTrec 1-800-262-8200 Available 24/7

2 Hazard(s) identification

- **Classification of the substance or mixture**
The substance is not classified, according to the Globally Harmonized System (GHS).

 - **Label elements**
 - **GHS label elements** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
 - **Information pertaining to particular dangers for man 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.
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
- 

Health = 1

Fire = 1

Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
- | | |
|------------|---|
| HEALTH | 1 |
| FIRE | 1 |
| REACTIVITY | 0 |

Health = 1

Fire = 1

Reactivity = 0
- **Other hazards**
Combining with solid oxidizing fertilizers may increase the hazardousness of the fertilizer and result in its classification as explosive material.

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- Treat the material like coal dust. It can ignite and burn.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
68514-28-3 K-HUMATE Granular
- **Identification number(s)**
- **EC number:** 271-030-1

4 First-aid measures

- **Description of first aid measures**
- **General information:** Product is alkaline and contains small amounts of KOH.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately rinse with water until clean.
First responder should wear 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 wear 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:**
- **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.

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.

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.
- **Methods and material for containment and cleaning up:**
Collect the product mechanically . Deposit in recipient for recuperation.

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- **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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

Substance is not listed.

· **PAC-2:**

Substance is not listed.

· **PAC-3:**

Substance is not listed.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
It is advisable to wear a dust mask, safety eye glasses and gloves.
Prevent the formation of dust. If dust do form, clean regularly and carefully.
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.
- **Information about protection against explosions and fires:**
Avoid dust formation and clean regularly and carefully if dust do form.
Keep away from sources of ignition - no smoking.
Keep away from hot surfaces and hot equipment.
- **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 oxidizing and acidic materials.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Specific end use(s)** Agricultural

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation 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

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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:** Wear safety glasses

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Granulate
Color:	Dark brown
Odor:	Earthy
Odor threshold:	Not determined.

- **pH-value:** 11.4

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Product will start to smoulder at 150 °C (302 °F) and exotherms at 220 °C (428 °F)

- **Auto igniting:** Not determined.

- **Danger of explosion:** Not determined.

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- **Vapor pressure:** Not applicable.

- **Density:** Not determined.
- **Bulk density 0-1 mm:** 54.46 lbs/ft³
- **Buld density 1-2 mm:** 57.89 lbs/ft³
- **Bulk density 2-4 mm:** 59.67 lbs/ft³
- **Relative density** Not determined.
- **Vapor density** Not applicable.
- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with**

Water: Not determined.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.
VOC content:	0.00 %

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Solids content:	100.0 %
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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 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 oxidizing agents.
- **Conditions to avoid** Incompatibles and extreme temperatures
- **Incompatible materials:**
Oxidising Agents
Acids
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
- | | | |
|---|------|--|
| · LD/LC50 values that are relevant for classification: | | |
| 68514-28-3 K-HUMATE Granular | | |
| Oral | LD50 | >2,000 mg/kg (rat)
<i>This is an estimated value, based on less than 0.5% KOH in solution</i> |
- **Primary irritant effect:**
 - **on the eye:** No irritating effect.
 - **Additional toxicological information:** The substance is not subject to classification.
 - **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)
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Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)
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Substance is not listed.

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.
- **Behavior 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 retard its movement

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- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (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.

If the fertilizer is not contaminated, recycle it. If contaminated, consult with specialists.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT, ADR, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class** Void

- **Packing group**

- **DOT, ADR, IMDG, IATA** Void

- **Environmental hazards:** Not applicable.

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 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**

No further relevant information available.

- **Sara**

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

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· Section 313 (Specific toxic chemical listings):
Substance is not listed.

· TSCA (Toxic Substances Control Act):
ACTIVE

· Hazardous Air Pollutants
Substance is not listed.

· Proposition 65

· Chemicals known to cause cancer:
Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:
Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:
Substance is not listed.

· Chemicals known to cause developmental toxicity:
Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)
Substance is not listed.

· TLV (Threshold Limit Value)
Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)
Substance is not listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **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:**

· **Date of preparation / last revision** 05/24/2023 / -

· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· *** Data compared to the previous version altered.**

