

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/01/2019

Reviewed on 02/01/2019

1 Identification

- **Product Identifier**
- **Trade Name: 1-0-31 K-Boost**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Fertilizer
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
BeanStalk Ag
PO Box 6623
Santa Rosa, CA 95406
- **Emergency telephone number:** (707) 819-0187

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS07

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- **Label elements:**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labeling:**
Magnesium Sulphate
Talc (Mg₃H₂(SiO₃)₄)
Ammonium Nitrate
- **Hazard statements:**
H320 Causes eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements:**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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Trade Name: 1-0-31 K-Boost**P405 Store locked up.**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values. 5 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	Health = 1
FIRE	Fire = 0
REACTIVITY	Physical Hazard = 0

- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

- **Non-hazardous components:**

CAS: 7778-80-5 RTECS: TT5900000	Potassium Sulfate	40-60%
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- **Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with non-hazardous additions.

- **Dangerous Components:**

CAS: 7487-88-9 RTECS: OM 4500000	Magnesium Sulphate STOT SE 3, H335	15-35%
CAS: 10101-41-4	Calcium Sulfate dihydrate Eye Irrit. 2A, H319	15-35%
CAS: 6484-52-2 RTECS: BR9050000	Ammonium Nitrate Ox. Sol. 3, H272; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%
CAS: 14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%

- **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

- **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** If skin irritation occurs, consult a doctor.

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- **After eye contact:**

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

- **After swallowing:** If swallowed and symptoms occur, consult a doctor.

- **Information for doctor**

- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media**

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **For safety reasons unsuitable extinguishing agents:** No further relevant information.

- **Special hazards arising from the substance or mixture:** No further relevant information available.

- **Advice for firefighters**

- **Special protective equipment for firefighters:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.

- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.

- **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- **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:**

7778-80-5	Potassium Sulfate	20 mg/m ³
7487-88-9	Magnesium Sulphate	20 mg/m ³
6484-52-2	Ammonium Nitrate	6.7 mg/m ³
69012-64-2	Silica-Amorphous Silica fume	45 mg/m ³
• PAC-2:		
7778-80-5	Potassium Sulfate	220 mg/m ³
7487-88-9	Magnesium Sulphate	220 mg/m ³
6484-52-2	Ammonium Nitrate	73 mg/m ³
69012-64-2	Silica-Amorphous Silica fume	500 mg/m ³
• PAC-3:		
7778-80-5	Potassium Sulfate	1,300 mg/m ³
7487-88-9	Magnesium Sulphate	1,300 mg/m ³
6484-52-2	Ammonium Nitrate	440 mg/m ³

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69012-64-2 Silica-Amorphous Silica fume

3,000 mg/m³**7 Handling and Storage**

- **Handling**
- **Precautions for safe handling:**
Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL	Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz
TLV	Long-term value: 2* mg/m ³ *as respirable fraction; E

- **Additional information:** The lists that were valid during the creation of this SDS 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 and wash before reuse. Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
 - **Breathing equipment:** Not required.
 - **Protection of hands:** Not required.
 - **Material of gloves:** Not applicable.
 - **Penetration time of glove material:** Not applicable.
 - **Eye protection:**



Safety glasses

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9 Physical and Chemical Properties**Information on basic physical and chemical properties****General:****Appearance:**

Form:	Granulate
Color:	Grey
Odor:	Odorless
Odor threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: >210 °C (>410 °F)

Flash point: None

Flammability (solid, gaseous): Not determined.

Ignition temperature: Not applicable

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapor pressure: Not applicable.

Density @ 20 °C (68 °F): 1.4984 g/cm³ (12.5041 lbs/gal)

Bulk density: 1,498.4 kg/m³

Relative density: Not determined.

Vapor 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.

Solvent content:

VOC content: 0.00 %

Solids content: 100.0 %

■ **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

LD/LC50 values that are relevant for classification:**7778-80-5 Potassium Sulfate**

Oral LD50 6,600 mg/kg (Rat)
 Inhalative LC50/96 hours 680 mg/l (Pimephales)

7487-88-9 Magnesium Sulphate

Oral LD50 >2,000 mg/kg (Rat)
 Inhalative LC50/4 h >2,000 mg/l (Rabbit)
 LC50/96 hours 2,820 mg/l (Pimephales)

6484-52-2 Ammonium Nitrate

Oral LD50 2,217 mg/kg (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 Group 1 - Carcinogenic to humans
 Group 2A - Probably carcinogenic to humans
 Group 2B - Possibly carcinogenic to humans
 Group 3 - Not classifiable as to its carcinogenicity to humans
 Group 4 - Probably not carcinogenic to humans

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	∞
69012-64-2	Silica-Amorphous Silica fume	∞

• **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**
 None of the ingredients are listed.

12 Ecological information**Toxicity: Aquatic toxicity: 7487-88-9 Magnesium Sulphate**

EC50 2,700 mg/l (Green algae)
 343.56 mg/l (Water flea)

Persistence and degradability: No further relevant information available.

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- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **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:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **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/ADN, IMDG, IATA	Non-Regulated Material
UN proper shipping name:	
DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
Transport hazard class(es):	
DOT, ADR/ADN, IMDG, IATA	
Class:	Non-Regulated Material
Packing group:	
DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
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":	Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

• Section 355 (extremely hazardous substances):
None of the ingredients are listed.
• Section 313 (Specific toxic chemical listings):
6484-52-2 Ammonium Nitrate
• TSCA (Toxic Substances Control Act):
7778-80-5 Potassium Sulfate
7487-88-9 Magnesium Sulphate
6484-52-2 Ammonium Nitrate
14807-96-6 Talc (Mg ₃ H ₂ (SiO ₃) ₄)

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69012-64-2	Silica-Amorphous Silica fume
• TSCA new (21st Century Act) (Substances not listed)	
10101-41-4	Calcium Sulfate dihydrate

• **California Proposition 65:**• **Chemicals known to cause cancer:**

None of the ingredients are listed.

• **Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.• **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

• **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

• **New Jersey Right-to-Know List:**

6484-52-2	Ammonium Nitrate	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	
69012-64-2	Silica-Amorphous Silica fume	
• New Jersey Special Hazardous Substance List:		
6484-52-2	Ammonium Nitrate	R3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	CA
• Pennsylvania Right-to-Know List:		
6484-52-2	Ammonium Nitrate	
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	

Pennsylvania Special Hazardous Substance List:

6484-52-2 Ammonium Nitrate

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• **Carcinogenic categories:**• **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

• **TLV(Threshold Limit Value established by ACGIH):**14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

A4

• **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms:** ¹

GHS07

Signal word: Warning**Hazard-determining components of labeling:**

Magnesium Sulphate

Talc (Mg₃H₂(SiO₃)₄)

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Ammonium Nitrate

■ **Hazard statements:**

H320 Causes eye irritation.

H335 May cause respiratory irritation.

■ **Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. P312 Call a poison center/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

■ **National regulations:**

None of the ingredients are listed.

■ **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

■ **Date of preparation / last revision:** 02/01/2019 / -■ **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified 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 and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Ox. Sol. 3: Oxidizing solids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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

N/A