

Material Safety Data Sheet


Section 1. Product Information

Product Name : Potassium Silicate
Trade Name : Potassium Silicate
Recommended and Restrictions for Use : Agriculture

Manufacturer Information

Name : KANA BOOSTER LLC
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Other : NA

Section 2. Hazards Identification

Hazard Categories : Acute toxic substance (swallowing) Category 5 Corrosion/skin irritation Category 3 Serious eye damage/eye irritation Category 2
 GHS-Pictogram :
Signal Word : Causes eye irritation.

Hazard Statements :

It may be harmful to swallow. Causes slight skin irritation. Causes eye irritation.

Precautionary Statements :

- Prevention

Wear protective clothing/gloves/safety glasses/face protection.

Wash hands completely after using.

- Deal with the emergency

If contact with eyes, flush the contaminated eye(s) for several minutes.

If you wear contact lenses, remove them and continue flushing, then get medical attention directly.

- Storage

Store in a cool and well-ventilated place.

Others : NA

Section 3. Ingredients Identification

Mixture

Hazardous components name	CAS No.	Concentration
Potassium Silicate	1312-76-1	17.5-45.5%
Water	7732-18-5	54.5-82.5%

Section 4. First Aid Measures

First aid measures for different exposure routes

● After skin contact :

Rinse immediately with plenty of lukewarm water at the contamination site.

● After eye contact :

1. Immediately flush the contaminated eye(s) with plenty of clean water for 1-2 minutes. If you wear contact lenses, remove them and continue flushing for several minutes.

2. Carefully rinse, not contaminate the uncontaminated eye, then get medical

attention directly.

- After swallowing :

Rinse mouth with clean water, drink plenty of water and milk, and then get medical attention.

Most important symptoms and hazardous effects : NA

On first-aiders : NA

The prompts to the doctor : NA

Section 5. Fire Fighting Measures

Extinguishing media : Nonflammable

Particular hazards may be encountered : NA

Particular fire fighting procedures : NA

Particular protective equipment for fire-fighters : Wear air respirators and chemical protective clothing to prevent splashing. Use positive-pressure air respirators.

Section 6. Accidental Release Measures

<p>Personal precautions</p>	<ul style="list-style-type: none"> ● Respiratory protection : When it is possible to exceed the exposure limit or guidelines, you should wear breathing protection devices. Suppose there are no applicable exposure limits or guidelines. In that case, you should wear breathing protection equipment when appearing harmful reactions such as breath irritation or discomfort or prove the risk resistance by risk assessment. Use an approved anti-dust respirator in the air containing droplets. The following are effective air-purifying respirators : the organic vapor filter with the equipment pre-filtering particle ● Hands protection : Use rubber gloves, and the gloves not penetrate (chemical resistance, oil resistance, solvent resistance). ● Eyes protection : Use a chemical safety face shield and goggles. ● Skin and body protection : 1. Use generally impervious protective clothing. 2. Have safety shower equipment in the working place.
<p>Environmental precautions</p>	<ol style="list-style-type: none"> 1. Have good ventilation at the release area. 2. Remove all ignition sources. 3. Prevent spilled material from entering soil, ditches, sewers, waterways, or groundwater. 4. Notify the related occupational safety, health, and environmental protection organizations.
<p>Clean up</p>	<p>As above.</p>

Section 7. Handling and Storage

<p>Handling</p>	<p>Avoid placing high and keep away from fire. Have ventilation fans, flushing eyes, and shower equipment in the working place. Do not swallow and make contact with your eyes, skin, or clothing.</p>
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Storage	<p>Keep away from heat, sparks, and fire.</p> <p>Keep the container closed when not in use.</p> <p>Store away from direct sunlight or ultraviolet radiation in a cool, dry, ventilated place to avoid moisture.</p>
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Section 8. Exposure Prevention Measures

<p>Engineering controls</p> <ol style="list-style-type: none"> 1. Use local exhaust ventilation to control mist and vapor from the exhaust port to the outside after handling. 2. Supply sufficient replacement air to make up for exhaust removal.
Target (organ/species) : NA
Value : NA
Other description : NA
<p>Personal protective equipment :</p> <ul style="list-style-type: none"> ➤ Respiratory protection : When it is possible to exceed the exposure limit or guidelines, you should wear respiratory protection devices. If there are no applicable exposure limits or guidelines, ➤ Hands protection : Use rubber gloves, and the gloves not penetrated (chemical resistance, oil resistance, solvent resistance). ➤ Eyes protection : Use a chemical safety face shield and goggles. ➤ Skin and body protection : <ol style="list-style-type: none"> 1. Use generally impervious protective clothing. 2. Have safety shower equipment in the working place.
<p>Sanitary measures :</p> <ol style="list-style-type: none"> 1. Remove the contaminated clothing quickly after working, discard or reuse it after cleaning, and should inform the laundry staff of the hazards of the contamination. 2. No smoking or eating in the working place. 3. Have to wash hands after handling. 4. Keep clean in the working place.

Chemical substances	TWA	STEL	CEILING	Likely route of exposure	Biological indicators	Other Description
Silicon Dioxide	NA	NA	NA	-	NA	NA
Potassium Oxide	NA	NA	NA	-	NA	NA
Reverse osmosis Water	NA	NA	NA	-	NA	NA

Section 9. Physical and Chemical Properties

Outward : yellow or tawny liquid	Odor threshold : NA
PH value : >11.5	Flammability : NA
Decomposition temp. : NA	Ignition temp. : NA
Vapor pressure : NA	Density : 1.17~1.50 g/cm ³
Octanol/water partition coefficient : NA	Smell : NA
Melting point : <-10°C	Boiling point : ~100°C
Test method : -	Flash point : NA
Explosion limits : NA	Vapor density : NA
Solubility : miscible with water	Evaporation rate : NA

Section 10. Stability and Reactivity

Stability : stable under average temperature and pressure
Materials to avoid : -
Condition to avoid : heat, flames, sun exposure
Hazardous reactions of particular conditions : -

Section 11. Toxicological Information

Exposure routes: Swallowing, breathing or skin/eye exposure,	
eye contact	irritating
skin contact.	It is expected that a single short exposure will not cause significant irritation.
Devour	-
Reproductive toxicity	-

Section 12. Ecological Information

Reproductive toxicity	-
Biodegradability:	-
Non-biodegradable	-
Other harmful effects	-

Section 13. Disposal Considerations

<ol style="list-style-type: none">1. Refer to the relevant regulations2. It was incinerating residues in the qualifying places.3. Recycling containers or discarding in the qualifying landfill.
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Section 14. Transportation Information

14.1 UN number	3266.
14.2 Proper Shipping name	Corrosive liquid, basic, inorganic, n.o.s.
14.3 Transport hazard class(es)	8.
14.4 Packing group	I.
14.5 Environmental hazards	Not classified as Marine Pollutants.
14.6 Special precautions for user	Unsuitable containers: Aluminum

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
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Section 15. Regulatory Information

Applicable regulations	<ul style="list-style-type: none"> ➤ Institute of Occupational Safety & Health ➤ Labor Safety and Health Rules ➤ Organic Solvent Poisoning Prevention Rules ➤ Road Traffic Safety Rules ➤ Public Dangerous Goods and Flammable Pressurized Gases Establishment Standards and Safety Management Measures ➤ Allowable Concentration of Harmful substances Standards ➤ Industrial Waste Storage and Disposal Standards
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Section 16. Other Information

References	<ol style="list-style-type: none"> 1. Handbook of Toxic and Hazardous Chemicals and Carcinogens 2. CHEMINFO database 3. CCINFO CD 4. Global Harmonized System (GHS) Website 5. UN Recommendations on the Transport of Dangerous Goods. Model Regulations Rev.16(2009) 6. Level Biotechnology Inc.
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