SIGMA AgriScience

SAFETY DATA SHEET

Prepared to OSHA HCS 29 CFR 1910.1200 (GHS)

Sigma K-Ferm 0-0-12

Revision date: October 20, 2026
Supersedes: see Section 16

Section 1 Identification

Product identifier	Sigma K-Ferm 0-0-12
Other means of identification	K-Ferm Organic™ 0-0-12 · complexed potassium, microbial exudates, potassium salt solution
Recommended use and restrictions	Liquid fertilizer for crops and horticulture. Do not store diluted or mixed with acid substances. Test intended mixtures for compatibility before mixing.
Supplier	Sigma AgriScience, LLC · 580 Maxim Dr., Boling, TX 77420
Manufacturer	BioXRG, Inc., 1839 Shiloh Ave., Bryan, TX 77803 · (979) 314-3151
Telephone	+1 (281) 706-8171
Email / website	info@sigma-agri.com · SigmaAgriScience.com
Emergency telephone	+1 (281) 706-8171 · Medical emergency: call 911

Section 2 Hazard(s) identification

Skin irritation, Category 2 · Eye irritation, Category 2A.



Signal word: **Warning**

Hazard statements

- H315 – Causes skin irritation.
- H319 – Causes serious eye irritation.

Precautionary statements

- IF SWALLOWED: Get emergency medical help.
- IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical help. Take off contaminated clothing and wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists, get medical help.

Other hazards not resulting in classification: Persons with pre-existing skin disorders or eye problems should avoid contact with the concentrated solution or take proper precautions.

Section 3 Composition / information on ingredients

Mixture.

Complexed potassium and chelated minerals · CAS N/A	12%
Microbial fermentation exudates with sub-nano organic acids · CAS N/A	15%
Water · CAS 7732-18-5	68%

Section 4 First-aid measures

Inhalation	Remove to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.

Ingestion	Rinse mouth with water and drink plenty of water. Do not induce vomiting. Call a poison control center. Get medical help if you feel unwell.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists, get medical help.
Skin contact	Wash off with plenty of water for at least 5 minutes and remove contaminated clothing and shoes. Wash clothing before reuse. Consult a physician if symptoms persist.
Potential health effects	Concentrate may cause gastrointestinal irritation if swallowed, slight skin irritation, and eye irritation that can become severe if untreated. Inhalation and chronic exposure: none known.

Section 5 Fire-fighting measures

Flammability	Aqueous mixture, not flammable.
Extinguishing media	Water, dry chemical, foam or carbon dioxide. Water spray may be used to keep containers cool.
Hazardous combustion products	None known.
Firefighter protection	Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece in positive-pressure mode.

Section 6 Accidental release measures

Personal precautions	See Section 8.
Environmental precautions	No special environmental precautions required.
Cleanup	Contain spill. Absorb liquid with clay or other absorbent material and dispose of properly, or vacuum into a container and dispose of under state/federal regulations for fertilizing materials.

Section 7 Handling and storage

Safe handling	Protect against physical damage.
Safe storage	Store in inert plastic or corrosion-resistant metal vessels, enclosed, in a cool, dry, well-ventilated location. Do not allow to freeze. Avoid storage above 110 °F.

Section 8 Exposure controls / personal protection

Engineering controls	Ensure adequate ventilation in confined areas. Maintain good industrial hygiene.
Respiratory protection	None required.
Hand protection	Chemically resistant gloves, such as nitrile.
Skin protection	Clothing consistent with good practice for non-hazardous chemicals.
Eye protection	Safety glasses or goggles.

Section 9 Physical and chemical properties

Appearance	Light brown liquid
Odor	Light sweet, vinegary odor
Solubility	Completely soluble in water
Specific gravity	1.16
pH	6.8 – 7.0
Boiling point	105 °C (221 °F)

Viscosity	2 cP at 80 °F

Section 10 Stability and reactivity

Reactivity	No known conditions to avoid.
Stability	Stable under ordinary conditions of use and storage.
Hazardous decomposition	None known.
Hazardous polymerization	Does not occur.
Incompatible materials	None known.
Conditions to avoid	Storage above 110 °F and freezing.

Section 11 Toxicological information

Routes of exposure	Skin, eyes, ingestion.
Acute toxicity	No data available.
Carcinogenicity / mutagenicity / reproductive	Not a known carcinogen, mutagen or reproductive toxin.
Sensitization / target organs	Not a known sensitizer. No known target organs.

Section 12 Ecological information

Ecological data	No ecological data available.

Section 13 Disposal considerations

Dispose of in accordance with state/federal regulations for the proper disposal of fertilizing materials. State and local disposal regulations may differ from federal regulations.

Section 14 Transport information

DOT (ground)	Not regulated
IMDG (sea)	None known

Section 15 Regulatory information

Regulatory information	Not provided on the manufacturer SDS.

Section 16 Other information

Revision date	October 20, 2026
Revision note	Re-issued in the uniform Sigma AgriScience SDS format. Supplier address and contact details updated. Hazard classification and safety content carried over from the superseded SDS.
Supersedes	Manufacturer SDS: BioXRG, Inc., 1839 Shiloh Ave., Bryan, TX 77803, (979) 314-3151, issued September 2025.
Ratings	Not rated on the source SDS.

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