

**ILC RESOURCES
MATERIAL SAFETY DATA SHEET**

Section 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

ILC RESOURCES
10536 Justin Drive
Urbandale, IA 50322-3730
MSDS Information: 1-515-243-8106

24-Hour Emergency Number
1-515-243-8106

PRODUCT NAME: potassium magnesium sulfate

COMMON NAME: K-Mag-Sulfate

CHEMICAL NAME: potassium magnesium sulfate

CHEMICAL FAMILY: Inorganic salt

CHEMICAL FORMULA: $K_2SO_4 \cdot 2(MgSO_4)$

Section 2 – COMPOSITION & INFORMATION ON INGREDIENTS

INGREDIENTS	PERCENTAGES (by weight)	PEL (OSHA)	TLV (ACGIH)	CAS #
potassium magnesium sulfate	97.3 %	---	---	14977-37-8
chloride salts	2.1%	---	---	---
nuisance dust	< 2%	total dust 15 mg/m ³ TWA respirable dust 5 mg/m ³ TWA	Total dust 10 mg/m ³	---

Section 3 – HAZARDS IDENTIFICATIONS

*** EMERGENCY OVERVIEW ***

Reddish tan to off-white crystals, odorless. Non-flammable. Non-hazardous to eyes, skin and throat.

POTENTIAL HEALTH EFFECTS

ROUTES OF ENTRY: Eye contact, dermal, inhalation, ingestion.

ACUTE EFFECTS OF OVEREXPOSURE:

Eyes – Nuisance dust

Skin – Non-hazardous

Inhalation – Non-hazardous

Ingestion – Non-hazardous

CHRONIC EFFECTS OF OVEREXPOSURE: None known

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

Potassium magnesium sulfate is not classified as a hazardous material by the OSHA Hazard Communication Regulation 29CFR Part 1910,.1910.1200, "Hazard Communication."

Section 4 – FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact - If material comes in contact with the eyes, promptly wash the eyes with water. Get medical attention if any discomfort continues.

Skin Contact – No special precautions; flush with water.

Inhalation - If a person breathes in large amounts of this material, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Ingestion: No special precautions, although large oral doses could cause vomiting, gastrointestinal irritation, and diarrhea.

Section 5 – FIRE-FIGHTING MEASURES

FLASH POINT: N/A AUTO IGNITION TEMP: N/A

FLAMMABLE LIMITS IN AIR	<u>LOWER</u>	<u>UPPER</u>
% BY VOLUME	N/A	N/A

EXTINGUISHING MEDIA: Use appropriate media to extinguish source.

SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: Potassium magnesium sulfate is not a fire hazard nor an explosive hazard.

HAZARD RATINGS: NFPA 704: Health - 0 Fire - 0 Reactivity - 0

Section 6 – ACCIDENTAL RELEASE MEASURES

Potassium magnesium sulfate is not classified as a “toxic pollutant” or a “hazardous substance” under Sections 307 and 311 of the Clean Water Act. Accidental spills can be cleaned up by sweeping or vacuuming.

Section 7 – HANDLING & STORAGE

HANDLING AND STORING: Store in a dry area; material is an animal feed ingredient.

Section 8 – EXPOSURE CONTROL – PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation may be necessary to maintain dust below exposure levels.

RESPIRATORY EQUIPMENT: An approved NIOSH dust respirator should be used when dust exposure standard is exceeded (nuisance dust 15 mg/m³).

EYE PROTECTION: Safety goggles.

PROTECTIVE CLOTHING: Not essential.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): None

Section 9 – PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Reddish tan to off-white crystals

ODOR: Odorless

MELTING POINT: 1700 ° F

SPECIFIC GRAVITY (water=1): 2.83

VAPOR PRESSURE: N/A

VAPOR DENSITY (air=1): N/A

SOLUBLE IN WATER: 24.4% @ 77° F

EVAPORATION RATE (ether=1): None

Section 10 – STABILITY & REACTIVITY

STABILITY: STABLE X
UNSTABLE

INCOMPATIBILITY: CONDITIONS TO AVOID: High temperatures above 1000° F
MATERIALS TO AVOID: None identified.

HAZARDOUS DECOMPOSITION PRODUCTS: Heating of product above 1000° F may release small amounts of sulfur oxides.

HAZARDOUS POLYMERIZATION: Will not occur

Section 11 – TOXICOLOGY INFORMATION

None found.

Note: ILC Resources has not conducted specific toxicity tests on this product.

Section 12 – ECOLOGICAL INFORMATION

Note: ILC Resources has not conducted specific ecological tests on this product. This product is used as an animal feed ingredient.

Section 13 – DISPOSAL CONSIDERATION

WASTE DISPOSAL PROCEDURES: Potassium magnesium sulfate is not classified as a hazardous waste under RCRA Section 3001. Use normal waste disposal procedures which are in compliance with federal, state, and local regulations.

Section 14 – REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: Not regulated by DOT DOT HAZARD CLASS: N/A

DOT IDENTIFICATION NUMBER: N/A

DOT EMER. RESPONSE GUIDE NO.: N/A

Section 15 – OTHER INFORMATION

This product does not contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

SARA SECTION 311–312 HAZARD CATEGORIES (40 CFR 370.2):

FIRE: No SUDDEN RELEASE OF PRESSURE: No REACTIVE: No ACUTE: No CHRONIC: No

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