

**ILC RESOURCES  
MATERIAL SAFETY DATA SHEET**

**Section 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

ILC RESOURCES  
500 New York Avenue  
Des Moines, IA 50313-4908  
MSDS Information: 1-515-243-8106

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

PRODUCT NAME: potassium chloride

COMMON NAME: potassium chloride, potash-potassium muriate CHEMICAL NAME: potassium chloride

CHEMICAL FAMILY: neutral salt of alkali metal

CHEMICAL FORMULA: KCl

**Section 2 – COMPOSITION & INFORMATION ON INGREDIENTS**

INGREDIENTS	PERCENTAGES (by weight)	PEL (OSHA)	TLV (ACGIH)	CAS #
Potassium chloride	98.6 – 98.9%	---	15mg/m <sup>3</sup>	7447-40-7
Sodium chloride	0.60 – 1.25%	---	15mg/m <sup>3</sup>	7647-14-5
Calcium stearate	0.05 – 0.15%	---	15 mg/m <sup>3</sup>	1592-23-0

\* potassium chloride is not classified as a hazardous material by OSHA. Dust is considered nuisance dust.

**Section 3 – HAZARDS IDENTIFICATIONS**

**\* E M E R G E N C Y O V E R V I E W \***

White crystalline solid granular, odorous. Non-flammable. Slight irritation to eyes, skin and throat on contact.

POTENTIAL HEALTH EFFECTS

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

ACUTE EFFECTS OF OVEREXPOSURE:

Eyes – Slight irritation

Skin – Slight irritation

Inhalation – Slight irritation

Ingestion – If material is swallowed, give large amounts of water, induce vomiting, and get medical attention immediately

CHRONIC EFFECTS OF OVEREXPOSURE: Long-term exposure to high concentrations of dust could cause a chronic cough or mild bronchitis. There is no evidence of permanent lung damage.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

#### 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 large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if any discomfort continues.

Skin Contact – If material comes in contact with the skin, promptly wash the contaminated skin with water. If material penetrates the clothing, promptly remove the clothing and wash the skin with water. If irritation persists after washing, get medical attention.

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 – If material is swallowed, give large amounts of water, induce vomiting, and get medical attention immediately.

#### 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: Toxic and irritating chlorine gases may be generated at high temperatures.

HAZARD RATINGS:    NFPA 704: Health - 2                      Fire - 0                      Reactivity - 0

#### Section 6 – ACCIDENTAL RELEASE MEASURES

Potassium chloride is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Regulation CFR Part 1910, 1910.1200.

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED: Accidental spills may 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/m<sup>3</sup>).

EYE PROTECTION: Tight fitting safety goggles.

PROTECTIVE CLOTHING: To reduce the likelihood of irritation, wear gloves and long sleeves.

OTHER (SAFETY SHOWERS, EYE WASH STATIONS, ETC.): Water should be available for flushing and washing.

#### Section 9 – PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: White crystal

ODOR: Odorless

BOILING POINT: 2732 ° F

MELTING POINT: 1423 ° F

VAPOR PRESSURE: N/A

VAPOR DENSITY (air=1): N/A

SOLUBLE IN WATER: 27.6 gm/100 ml

SPECIFIC GRAVITY (water=1): 1.988

pH: 5.4 – 8.6 at 5% solution

EVAPORATION RATE (ether=1): N/A

#### Section 10 – STABILITY & REACTIVITY

STABILITY: STABLE  UNSTABLE

INCOMPATIBILITY: CONDITIONS TO AVOID: N/A  
MATERIALS TO AVOID: Hot nitric acid or other strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with acids will cause irritating and corrosive chloride gases to form.

HAZARDOUS POLYMERIZATION: Will not occur

#### Section 11 – TOXICOLOGY INFORMATION

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.

#### Section 13 – DISPOSAL CONSIDERATION

WASTE DISPOSAL PROCEDURES: Store in a dry area and dispose of in accordance with applicable 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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