

1.

Safety Data Sheet

Version 1.3 Revision Date 08/01/2021

PRODUCT AND COMPANY IDENTIFICATION		
Product Name	Potassium Chloride, Enriched Potassium	
Chemical Formula	KCI	
Molecular Weight	74.55	
CAS No.	7447-40-7	
Synonym(s)	Potassium monochloride	
Supplier Address*	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States	
Telephone	+1 415-440-4433	
Fax	+1 415-563-4433	
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053 *May include subsidiaries or affiliate companies/divisions	
Email	iusa@isoflex.com	
Website	www.isoflex.com	
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433	

2. HAZARDS IDENTIFICATION

Emergency Overview:

Caution! May be harmful if swallowed. May cause irritation to skin, eyes and respiratory tract.

NFPA Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health Hazard = 1 Flammability = 0 Reactivity = 0



HMIS Ratings: (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe) Health Hazard = 1 Flammability = 0 Physical Hazard = 0

HEALTH HAZARD	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	Α

Lab Protective Equipment	Goggles; Lab Coat; Vent Hood; Proper Gloves
Storage Color Code	Green (General Storage)
Potential Health Effects	
Inhalation	Inhalation of high concentrations of dust may cause nasal or lung irritation.
Ingestion	Large quantities can produce gastrointestinal irritation and vomiting. May produce weakness and circulatory problems. May affect heart. In severe cases, ingestion may be fatal.
Skin Contact	Contact may cause irritation or rash, particularly with moist skin.
Eye Contact	Potassium chloride is a moderate eye irritant. Redness, tearing, possible abrasion can occur.
Chronic Exposure	No information found
Aggravation of Pre-existing Conditions	Persons with impaired kidney function may be more susceptible to the effects of the substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Potassium Chloride	
CAS No.	7447-40-7	
Chemical Formula:	KCI	
Molecular Weight:	74.55	

4. FIRST AID MEASURES

Inhalation Exposure	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.	
Oral Exposure	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.	
Dermal Exposure	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.	
Eye Exposure	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.	

5. FIREFIGHTING MEASURES

Fire	Not considered a fire hazard
Explosion	Not considered an explosion hazard
Suitable Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Firefighting	

Protective EquipmentIn the event of a fire, wear full protective clothing and NIOSH-approved
self-contained breathing apparatus with full facepiece operated in the
pressure-demand or other positive-pressure mode.

6.	ACCIDENTAL RELEASE MEASURES	;
	Personal Precautions	Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.
	Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
	Methods for Cleaning Up	Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.
7.	HANDLING AND STORAGE	
	Handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
	Storage	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	Airborne Exposure Limits	None established
	Ventilation System	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document <i>Industrial Ventilation, A</i> <i>Manual of Recommended Practices</i> , most recent edition, for details.
	Personal Protective Equipment	
	Personal Res <mark>pir</mark> ators (NIOSH-Appr <mark>ov</mark> ed)	For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air- purifying respirators do not protect workers in oxygen-deficient atmospheres.
	Hand Protection	Wear protective gloves.
	Body Protection	Wear clean body-covering clothing.
	Eye Protection	Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Odor White crystals or powder Odorless

Safety Data

Solubility: Density: pH: % Volatiles: Boiling Point:

28.1 g/100g of water @ 0 °C 1.987 ca. 7 Saturated aq. sl. @ 15 °C Vapor Pressure: 0, @ 21 °C (70 °F) 1500 °C (2732 °F) Sublimes

Melting Point: Vapor Density: Evaporation Rate: 772 °C (1422 °F) No information found No information found No information found

10. STABILITY AND REACTIVITY

Stability	Stable under ordinary conditions of use and storage
Hazardous Decomposition Products	Oxides of the contained metal and halogen, possibly also free, or ionic halogen
Hazardous Polymerization	Will not occur
Incompatible Materials	Bromine trifluoride; potassium permanganate plus sulfuric acid
Conditions to Avoid	No information found

11. **TOXICOLOGICAL INFORMATION**

Oral LD50 (Rat)	2600 mg/kg	
Irritation Eye Rabbit (Standard Draize)	500 mg/24 hr mild; investigated as a mutagen	
Skin Corrosion/Irritation	No data available	
Serious Eye Damage/Irritation	No eye irritation	
Respiratory or Skin Sensitization	No data available	
Germ Cell Mutagenicity	No data available	
Carcinogenicity		
	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.	
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
Reproductive Toxicity	No data available	
Specific Target Organ Toxicity / Single Exposure	No data available	
Specific Target Organ Toxicity / Repeated Exposure	No data available	
Aspiration Hazard	No data available	
Additional Information	RTECS: TS8050000	

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to Fish	LC50 - <i>Pimephales promelas</i> (fathead minnow) - 880 mg/l - 96 h Mortality NOEC - <i>Pimephales promelas</i> (fathead minnow) - 500 mg/l - 7 d Mortality LOEC - Pimephales promelas (fathead minnow) - 1,000 mg/l - 7 d
Toxicity to Daphnia and Other Aquatic Invertebrates	EC50 - <i>Daphnia magna</i> (Water flea) - 83 mg/l - 48 h
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Mobility in Soil	No data available
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available, as chemical safety assessment not required/not conducted
Other Adverse Effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

14.

15.

Product	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.
Contaminated Packaging	Dispose of container and unused contents in accordance with federal, state and local requirements.
TRANSPORT INFORMATION	Not regulated
REGULATORY INFORMATION	
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Chronic Health Hazard
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components	Potassium chloride / CAS No. 7447-40-7
New Jersey Right to Know Components	Potassium chloride / CAS No. 7447-40-7

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Prepared By	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States
Issuing Date	January 12, 2014
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Revision Number	2
Revision Note	Required review and update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH ADR ALARA AMU ANSI BLS CAM CAS CEN CERCLA CLP CPR CWA DAC DOE DOT DSL EC50 EINECS EHS ELINCS EMS EPA EPCRA GHS HMIS IARC IATA IBC ICAO IDLH IMDG	American Conference of Governmental Industrial Hygienists European Agreement Concerning the International Carriage of Dangerous Goods by Road As Low As Is Reasonably Achievable Atomic Mass Unit American National Standards Institute Basic Life Support Continuous Air Monitor Chemical Abstracts Service (division of the American Chemical Society) European Committee for Standardization Comprehensive Environmental Response Compensation and Liability Act Classification, Labelling and Packaging (European Union) Controlled Products Regulations (Canada) Clean Water Act (USA) United States Department of Energy (USA) United States Department of Transportation (USA) Domestic Substances List (Canada) Half Maximal Effective Concentration European Inventory of Existing Commercial Chemical Substances Environmentally Hazardous Substance European List of Notified Chemical Substances Environmental Protection Agency (USA) Emergency Response Procedures for Ships Carrying Dangerous Goods Environmental Protection Agency (USA) International Agency for Research on Cancer International Air Transport Association Intermediate Bulk Containers International Civil Aviation Organization Immediately Dangerous to Life or Health International Maritime Code for Dangerous Goods
LC50	International Maritime Code for Dangerous Goods Lethal concentration, 50 percent
LD50 LDLO	Lethal dose, 50 percent Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL MSHA	International Convention for the Prevention of Pollution from Ships Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)

NIOSH NOEC N.O.S. NRC NTP OSHA PBT PEL PIH RCRA	National Institute for Occupational Safety and Health (USA) No Observed Effect Concentration Not Otherwise Specified Nuclear Regulatory Commission (USA) National Toxicology Program (USA) Occupational Safety and Health Administration (USA) Persistent Bioaccumulative and Toxic Chemical Permissible Exposure Limit Poisonous by Inhalation Hazard Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

*One or more of the above-listed items may not appear in this document.

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