Section 1

Chemical Product and Company Information



CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only, Not for drug, food or household use,

Product

POTASSIUM CHLORATE

Synonyms

Chlorate of Potash; Chlonc Acid, Potassium Salt; Potassium Oxymuriate

Section 2

Hazards Identification

Signal word: DANGER

Pictograms: GHS03 / GHS07 / GHS09 Target organa: Liver, Kidneys, Blood







GHS Classification: Oxidizing solid (Category 1) Acute toxicity, oral (Category 4) Acute toxicity, inhalation (Category 4) Aquetic, chronic (Category 2)

GHS Label information: Hazard statement:

H271: May cause fire or explosion; strong oxidizer.

H302: Harmful if awallowed.

H332: Harmful if inhaled.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking

P220: Keep away from clothing/incompatible/combustible materials

P221: Take any precaution to avoid mixing with combustibles/acids/exidizers

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P283: Wear fire/flame resistant/retardant clothing.

P301+P330+P312: IF SWALLOWED: Rinse mouth, Call a POISON CENTER or

doctor if you feel unwei

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P306+P360; IF ON CLOTHING: Rinse immediately contaminated clothing and skin

with plenty of water before removing clothes.

P312: Call a POISON CENTER or doctor if you feel unwell.

P371+P380+P375: In case of fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P370+P378; In case of fire: Use water to extinguish,

P391: Collect spillage.

P501; Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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

Section 3 Composition / in	formation on Ingredients			
Chemical Name	CAS#	%	EINECS	
Potassium chlorate	3811-04-9	99.7%	223-289-7	

First Aid Measures

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel; Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION, Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Fire Fighting Measures

Suitable Extinguishing Media: Use water. Do not use dry chemicals or foams. CO2 or Halon⁵ may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Substance is a strong oxidizer which releases oxygen on heating. Forms explosive mixtures with combustible, organic, reducing agents or other easily oxidizable militarials. Explodes with sulfuric acid or immonium chloride These mixtures are easily ignited with friction or heat.

Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water

KM00691 POTASSIUM CHLORATE

Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources,

Section 8 Exposure Controls / Personal Protection

Chemical Name Exposure Limits: Particles not otherwise classified

ACGIH (TLV) Not established

Evaporation rate (= 1): Not applicable

Vapor pressure (mm Hg): Negligible

Solubility(ies): Soluble in water.

Flammability (solid/gas): Data not available.

Vapor density (Air = 1): Data not available

Relative density (Specific gravity): 2.34

Explosion limits: Lower / Upper: Not applicable

OSHA (PEL) TVVA: 15 mg/m3 total dust

Partition coefficient: Data not available

Viscosity: Data not available. Molecular formula: KCIO3

Molecular weight: 122,55

Auto-Ignition temperature: Data not available

Decomposition temperature: Data not available

NIOSH (REL) Not established

Engineering controts: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low,

Respiratory protection; None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in furne hood or wear a NIOSH/MSH/Aapproved respirator

Section 9

Physical & Chemical Properties

Appearance: Solid. White, crystalline powder Odor: No odor

Odor threshold: Data not available. pH: Data not available.

Melting / Freezing point: 368°C (694°F) Bolling point: 400°C (752°F)

Flash point: Non-combustible

Stability & Reactivity

Section 10

Hazardous polymerization: Will not occur. Chemical stability: Stable

Conditions to avoid: Excessive temperatures; heat, sparks, open flame and other sources of ignition.

Incompatible materials: Ammonia, combustible materials, strong reducing agents, finely powdered metals, alcohols, strong acids, suffur and metal-sulfur compounds, sugars and metal-phosphorous compounds.

Hazardous decomposition products: Chlorine, oxygen, potassium oxides.

Section 11

Toxicological Information

Acute toxicity: Oral-rat LD50; 1870 mg/kg ; Dermal-rabbit LDo: >2000

Skin corrosion/irritation: Skin-rabbit - Slight irritant.

Serious eye damage/irritation: Eyes-rabbit - Moderate irritant

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

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.

IARC: No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by IARC.

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: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause cough, sore throat.

Ingestion: Ingestion causes abdominal pain, cyanosis, confusion, convulsions, diarrhea, dizziness, headache, nausea, shortness of breath, sore throat, unconsciousness,

vomiting." Substance can be absorbed into the body by ingestion. Symptoms may be delayed.

Skin: Contact with skin causes redness:

Eyes: Contact with eyes causes redness and pain.

Signs and symptoms of exposure: The substance may cause effects on the blood and kidneys. This may result in lesions of blood cells, kidney impairment and formation of

methaemoglobin. The effects may be delayed. Additional information: RTECS #: FO0350000

Ecological Information Section 12

Toxicity to fish: Oncorhynchus mykiss (fish, fresh water), LC50 = 2750 mg/L/48 hours

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacia), LC50 = 880 mg/L/24 hours

Toxicity to algae: Chlorella vulgaris (Algae) = 424 mg/L

Persistence and degradability: No data available Mobility in soil: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State artid/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: UN1485

Hazard class: 5.1 Packing group: II Exceptions: Limited quantity equal to or less than 1 Kg

Shipping name: Potassium chlorate Reportable Quantity: No

2012 ERG Guide # 140

Marine pollutant: No

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the enrightness form is on the Inventory list

Component TSCA CERLCA (RQ)

Potassium chlorate

Not listed Listed

RCRA code

Listed

DSL

WHMIS Classification

Supercedes: March 5, 2013

D001 D003

ND5L Not listed

Section 16

Additional Information

The information contained hereirc is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent dent determinations of suntability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP National Toxicology Progress IARC, International Agency for Research on Caricas, OSH4, Occupational Safety and Health Administration, STOT, Specific Target Organ Toxicity, SE, Single Exposure, RE, Repeated Exposure. ERG Emergency Response Guidebook

Revision Date: September 5, 2014