Potassium Chlorate



Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Potassium Chlorate Science education applications Chlorate of Potash Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



May cause fire or explosion; strong oxidizer. Harmful if swallowed or if inhaled. Causes eye irritation. Toxic to aquatic life.

GHS Classification:

Oxidizing Solid Category 1, Serious Eye Damage/Eye Irritation Category 2B, Hazardous to the aquatic environment - Acute Category 2, Skin Corrosion/Irritation Category 3, Acute Toxicity - Inhalation Dust / Mist Category 4, Acute Toxicity - Oral Category 4, Acute Toxicity - Dermal Category 5

Other Safety Precautions:

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Section 3		Composition / Information on Ingredients				
Chemical Name Potassium Chlorate			CAS # 3811-04-9	<u>%</u> 100		
Section 4		First Aid Mea	asures			
Emergency and First	Aid Procedures					
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
Eyes:	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 advice/attention.					
Skin Contact:	IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.					
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.					
Section 5		Firefighting Pro	ocedures			
Extinguishing Media:		Use alcohol foam, carbon dioxide, or material.	water spray wh	nen fighting fires involvir	ng this	
Fire Fighting Methods and Protection:		Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Hazards:		Powerful oxidizer. Fire or excessive heat may produce hazardous decomposition				

Hydrogen chloride, Potassium Oxide

products.

Hazardous Combustion Products:

Section 6	Spill or Leak Procedures
Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Isolate area. Keep unnecessary personnel away. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure. Avoid the generation of dusts during clean-up.
Environmental Precautions:	Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to waterways. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

 Handling:
 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep/Store away from

 clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing

 dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this

 product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective

 gloves/protective clothing/eye protection/face protection. Wear fire/flame resistant/retardant clothing. Keep

 Storage:
 Avoid creating and inhaling dust.

Storage Code:

de: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8	Protection	nformation			
	ACC	ЭH	OSHA PEL		
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	(TWA)	(STEL)	
No data available	N/A	N/A	N/A	N/A	
Control Parameters Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Use				
	process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits				
Personal Protective Equipment (PPE):	Lab coat, apron, eye w				
Respiratory Protection:	Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Respiratory protection may be required in addition to ventilation depending upon conditions of use.				
Respirator Type(s):	NIOSH approved full-face respirator as a minimum.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			eye wash station	
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	Nitrile				

Section 9

Physical Data

Formula: KClO3 Molecular Weight: 122.55 Appearance: White Crystalline Solid Odor: No data available Odor Threshold: No data available Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.32 Solubility in Water: Soluble

pH: 5.0 - 6.5 at 61.3 g/l at 25 °C Melting Point: No data available 368 C Boiling Point: No data available 400 C Flash Point: No data available Flammable Limits in Air: N/A Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Section 10

Acute Toxicity:

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:		No data available Stable under normal conditions. None known. Alcohols, Metals (powdered), Strong acids, Strong reducing agents Potassium Oxide, Hydrogen chloride Will not occur				
Section 11		Toxicity Data				
	Inhalation and ir Respiratory disorc No data available	ngestion. Jers, Gastrointestinal,				

Chemical Name Potassium Chlorate		CAS Number 3811-04-9	Oral LD50 Oral LD50 Rat 1870 mg/kg	Dermal LD50 Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name No data available		CAS Number 3811-04-9	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute:	No evidence of a n No evidence of a to No evidence of a s No evidence of neg See Section 2				

N/A

Section 12

Chronic:

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Chemical Name Potassium Chlorate **CAS Number** 3811-04-9

Eco Toxicity 96 HR LC50 PIMEPHALES PROMELAS 13500 MG/L 96 HR LC50 ONCORHYNCHUS MYKISS 1750 MG/L 24 HR EC50 DAPHNIA MAGNA 1093 MG/L

Section 13

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Ground - DOT Proper Shipping Name:

Transport Information

Air - IATA Proper Shipping Name:

UN number: 1485 Class: 5.1 Packing group: II Proper shipping name: Potassium chlorate Marine pollutant: No Poison Inhalation Hazard: No

UN number: 1485 Class: 5.1 Packing group: II Proper shipping name: Potassium chlorate

Section 15	Regulatory Information					
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	3811-04-9	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health