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MATERIAL SAFETY DATA SHEET

SECTION I		CAS# 3811-04-9
CHEMICAL NAME AND SYNONYMS Potassium Chlorate		TRADE NAME AND SYNONYMS Berthollet's salt
CHEMICAL FAMILY Salt or an inorganic acid	FORMULA KClO ₃	

SECTION II—HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Not Applicable. Potassium Chlorate is a single compound					

SECTION III—PHYSICAL DATA			
BOILING POINT (°F.)	decomposes	SPECIFIC GRAVITY (H ₂ O = 1)	2.32
VAPOR PRESSURE (mm Hg.)	not known	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR = 1)	N.A.	EVAPORATION RATE (_____ = 1)	N.A.
SOLUBILITY IN WATER	g/ml @ 20°C	7.1	
APPEARANCE AND ODOR	White crystalline solid or powder		

SECTION IV—FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	Not flammable	FLAMMABLE LIMITS	LeI UeI
EXTINGUISHING MEDIA	water, carbon dioxide		
SPECIAL FIRE FIGHTING PROCEDURES	Use plenty of water, watch for rapid burning due to oxygen generation, wear self-contained breathing apparatus.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Decomposes with heat to oxygen and potassium perchlorate, enflames and/or explodes when heated with organic substances.		

SECTION V—HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	Not established, LD ₅₀ (human) 429 mg/kg; LD ₅₀ (Rat)-7000 mg/kg
EFFECTS OF OVEREXPOSURE	Ingestion - Can cause hemolysis of red blood cells and methemoglobinemia, and delayed damage to the liver and kidneys.
EMERGENCY AND FIRST AID PROCEDURES	Ingestion - Induce vomiting, call a physician Eyes -- Flush eyes with water, holding lids apart for 15 minutes. Consult a physician.

SECTION VI—REACTIVITY DATA			
STABILITY	UNSTABLE	X	CONDITIONS TO AVOID heat, contact w/other materials.
	STABLE		
INCOMPATIBILITY (Materials to avoid) Sulfuric Acid, organic substances, sulfur, phosphorous, sulfite, oxidizable substances.			
HAZARDOUS DECOMPOSITION PRODUCTS Oxygen, Potassium Perchlorate			
HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID
	WILL NOT OCCUR		

SECTION VII—SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED small spills—sweep up and flush down drain with plenty of water. Larger spills- do not get on floor, sweep up and remove immediately to an area away from flammable material. Store, pending disposal, in metal containers.	
WASTE DISPOSAL METHOD Dispose of in accordance with all Federal, local, and state regulations concerning health and pollution. Dispose via approved chemical waste disposal method.	

SECTION VIII—SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) NIOSH Approved respirator for dusts			
VENTILATION	LOCAL EXHAUST	To control dust	SPECIAL Perchlorate type hood
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES	Polyethylene	EYE PROTECTION	Goggles
OTHER PROTECTIVE EQUIPMENT Neoprene apron and boots			

SECTION IX—SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep tightly closed in original container, store in a cool dry place—away from flammable materials.	
OTHER PRECAUTIONS Chlorate contaminated clothing, paper and other flammables can spontaneously burst into flames or ignite with a spark or friction when dry.	