

MATERIAL SAFETY DATA SHEET

PART NUMBER: 9210079
IDENTITY: POTASSIUM NITRATE CRYSTALS
MANUFACTURER: ROSEMOUNT ANALYTICAL INC.
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DATE REVISED: 01/26/11
PREPARED BY: R. MORRISON
REVISED BY: T. PHILLIPS

SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	CAS#	%	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
POTASSIUM NITRATE	7757-79-1	100.	N/A	N/A	DOT CLASS: OXY

NON-HAZARDOUS INGREDIENTS
TOTAL 100

No health hazard or other information is available for the solution of the mixture. The following sections are based on information obtained from <http://www.vwrsp.com/msds/10/EM-/EM-B10214-34.pdf> and our best scientific understanding of the solution

SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	DECOMPOSES
SPECIFIC GRAVITY (H ₂ O = 1)	2.11
VAPOR PRESSURE (mm Hg/TEMPERATURE)	N/A
MELTING POINT	337°C
VAPOR DENSITY (AIR = 1)	N/A
EVAPORATION RATE (= 1)	N/A
SOLUBILITY IN WATER	COMPLETE
WATER REACTIVE	N/A
APPEARANCE AND ODOR	WHITE CRYSTALLINE POWDER, ODORLESS

SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USE	N/A
AUTO IGNITION TEMPERATURE	N/A
FLAMMABILITY LIMITS IN AIR BY VOLUME	N/A
LEL	N/A
UEL	N/A
EXTINGUISHER MEDIA	WATER FOG, DRY CHEMICAL, CO ₂
SPECIAL FIRE FIGHTING PROCEDURE	KNO ₃ MAY INTENSIFY A FIRE., OXIDIZER.

UNUSUAL FIRE AND EXPLOSION HAZARD: WEAR A SELF-CONTAINED BREATHING APPARATUS (SCBA) TO AVOID TOXIC EMISSIONS FROM HEAT.

SECTION 4--REACTIVITY HAZARD DATA

STABILITY	STABLE <u>X</u>	UNSTABLE <u>__</u>
CONDITIONS TO AVOID:	NONE	
INCOMPATIBILITY MATERIALS TO AVOID:	NONE	
HAZARDOUS DECOMPOSITION PRODUCTS:	NONE	
HAZARDOUS POLYMERIZATION:	MAY OCCUR <u>__</u>	WILL NOT OCCUR <u>X</u>
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID:	DOES NOT POLYMERIZE	

SECTION 5--HEALTH HAZARD DATA

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PRIMARY ROUTES OF ENTRY: INHALATION X SKIN ABSORPTION X
INGESTION X NOT HAZARDOUS

CARCINOGEN LISTED: NTP__ IRAC__ OSHA__ NOT LISTED X

HEALTH HAZARDS

ACUTE: HIGHLY TOXIC TO DIGESTIVE TRACT. SKIN IRRITANT
CHRONIC: MAY CAUSE DERMATITIS

SIGNS AND SYMPTOMS OF EXPOSURE: NAUSEA, DIARRHEA, VOMITING

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: DERMITIS, MAY DECREASE OXYGEN FLOW IN BLOOD.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER MINIMUM 15 MINUTES.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR IF NECESSARY.

INGESTION: DRINK MILK OR WATER; INDUCE VOMITING IF CONSCIOUS; SEEK MEDICAL ASSISTANCE.

SECTION 6--CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSHA/MSHA APPROVED RESPIRATOR

PROTECTIVE GLOVES: YES

EYE PROTECTION: YES

VENTILATION TO BE USED

LOCAL EXHAUST: RECOMMENDED

MECHANICAL (GENERAL): REQUIRE

SPECIAL OTHER (SPECIFY):

PROTECTIVE CLOTHING AND EQUIPMENT: LAB APRON/COAT

HYGIENIC WORK PRACTICES: WASH HANDS AFTER HANDLING.

SECTION 7--PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: COVER WITH SODA ASH; MIX AND SCOOP. PLACE IN SAFETY DISPOSAL CONTAINER.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID HEAT, SPARKS AND OPEN FLAMES. KEEP AWAY FROM ELECTRICAL SOURCES.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: N/A

RATING:

HEALTH 1 FLAMMABILITY 0 REACTIVITY 3 SPECIFIC OXY