

MATERIAL SAFETY DATA SHEET

PART NUMBER: 7921004
IDENTITY: DOUBLE JUNCTION REFERENCE GEL-KNO₃
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 LIMITS RECOMMENDED
POTASSIUM NITRATE	7757-79-1	7.04			
FORMALDEHYDE	50-00-0	0.1	1ppmTWA	OSHA STD 2ppm	
POLYSACCHARIDE GELLING AGENT (CAS# 11138-66-2)		1.			
GUM BLEND GELLING AGENT (CAS#S 11138-66-2/9000-40-2)		1.			
NON-HAZARDOUS INGREDIENTS					
WATER		91			
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.jtbaker.com/msds/englishhtml/P5950.htm> <http://www.jtbaker.com/msds/englishhtml/F5605.htm> <http://www.vwrsp.com/msds/10/EM-/EM-XX1110-1.pdf> and our best scientific understanding of the solution.

SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	100°C
SPECIFIC GRAVITY (H ₂ O = 1)	1.0°C
VAPOR PRESSURE (mm Hg/TEMPERATURE)	SIMILAR TO WATER
MELTING POINT	N/A
VAPOR DENSITY (AIR = 1)	N/A
EVAPORATION RATE (= 1)	N/A
SOLUBILITY IN WATER	COMPLETE
WATER REACTIVE	N/A
APPEARANCE AND ODOR	OPAQUE, ODORLESS HIGH VISCOSITY SOLUTION

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	DRY CHEMICAL; WATER FOG
SPECIAL FIRE FIGHTING PROCEDURE	N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINS AN OXIDIZER. IF THE MATERIAL IS ALLOWED TO BECOME DRY, IT WILL BE FLAMMABLE.

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__ WILL NOT OCCURX
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID: DOES NOT POLYMERIZE

SECTION 5--HEALTH HAZARD DATA: 7921004

PRIMARY ROUTES OF ENTRY: INHALATIONX SKIN ABSORPTIONX
INGESTIONX NOT HAZARDOUS

CARCINOGEN LISTED: NTP__ IRAC__ OSHA__ NOT LISTEDX

HEALTH HAZARDS

ACUTE: FORMALDEHYDE: RESPIRATORY IRRITANT. POTASSIUM NITRATE: TOXIC

CHRONIC: MAYBE HARMFUL TO DIGESTIVE TRACT

SIGNS AND SYMPTOMS OF EXPOSURE: IRRITATION/NAUSEA

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: UNKNOWN

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER 15 MINUTES.

SKIN CONTACT: WASH WITH SOAP AND WATER.

INHALATION: REMOVE TO FRESH AIR.

INGESTION: DILUTE WITH MILK OR WATER. 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): REQUIRED

SPECIAL:OTHER (SPECIFY):

PROTECTIVE CLOTHING AND EQUIPMENT: LAB COAT/APRON

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 AS; MIX AND SCOOP. PLACE IN APPROPRIATE CONTAINER

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN PLASTIC CONTAINER, ROOM TEMPERATURE.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: N/A

RATING

HEALTH2

FLAMMABILITY2

REACTIVITY0

SPECIFIC OXY