

MATERIAL SAFETY DATA SHEET

PART NUMBER: 905-755341
IDENTITY: CALIBRATION STANDARD 90%RH
MANUFACTURER: ROSEMOUNT ANALYTICAL INC.
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IRVINE, CA 92606
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(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

DATE REVISED: 01/26/11
PREPARED BY: R. MORRISON
REVISED BY: T. PHILLIPS

SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	%	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
BARIUM CHLORIDE DIHYDRATE CAS# 10326-27-9	>95%			

NON-HAZARDOUS INGREDIENTS <5%
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/B0372.htm> and our best scientific understanding of the solution.

SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	No information found
SPECIFIC GRAVITY (H ₂ O = 1)	No information found
VAPOR PRESSURE (mm Hg/TEMPERATURE)	No information found
MELTING POINT	No information found
VAPOR DENSITY (AIR = 1)	No information found.
EVAPORATION RATE (= 1)	No information found.
SOLUBILITY IN WATER	31g/100cc water @ 0C (32F)
WATER REACTIVE	N/A
APPEARANCE AND ODOR	Odorless clear solution

SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USE	Not considered to be a fire hazard.
AUTO IGNITION TEMPERATURE	Unknown
FLAMMABILITY LIMITS IN AIR BY VOLUME	N/A
LEL	
UEL	
EXTINGUISHER MEDIA	Any
SPECIAL FIRE FIGHTING PROCEDURE	wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode
UNUSUAL FIRE AND EXPLOSION HAZARD:	Not considered to be a fire or explosion hazard

SECTION 4--REACTIVITY HAZARD DATA

STABILITY	STABLE <u>x</u>	UNSTABLE <u>__</u>
CONDITIONS TO AVOID:	Incompatibles	
INCOMPATIBILITY MATERIALS TO AVOID:	Bromine trifluoride; 2-furan percarboxylic acid. (Anhydrous)	

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of the contained metal and halogen, possibly also free, or ionic halogen

HAZARDOUS POLYMERIZATION: MAY OCCUR __ WILL NOT OCCUR x
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID: N/A

SECTION 5--HEALTH HAZARD DATA 905-755341

PRIMARY ROUTES OF ENTRY: INHALATION x SKIN ABSORPTION x
INGESTION x NOT HAZARDOUS __

CARCINOGEN LISTED: NPT __ IRAC __ OSHA __ NOT LISTED x

HEALTH HAZARDS

ACUTE: Ingesting more than 1 gram in solid form could be lethal
CHRONIC: No information found.

SIGNS AND SYMPTOMS OF EXPOSURE: Irritation, vomiting , coughing, redness, blurred vision

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN CONTACT: Wash exposed area with soap and water. Get medical advice if irritation develops.

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Get medical attention immediately. Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. After vomiting, a mixture of 1 tablespoon of sodium or magnesium sulfate (Epsom salts) dissolved in 8 oz. of water to drink maybe indicated to precipitate the barium as the nontoxic and insoluble barium sulfate.

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: yes

MECHANICAL (GENERAL):

SPECIAL OTHER (SPECIFY): NIOSH type N95 Respirator with filters is acceptable

PROTECTIVE CLOTHING AND EQUIPMENT: goggles, gloves, lab coat

HYGIENIC WORK PRACTICES: yes

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

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

WASTE DISPOSAL METHODS: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store away from heat incompatibilities

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: N/A

RATING: HEALTH 3 FLAMMABILITY 0 REACTIVITY 0 SPECIFIC __