

## MATERIAL SAFETY DATA SHEET

PART NUMBER: 905-761484  
IDENTITY: HYDRAZINE SULFATE  
MANUFACTURER: ROSEMOUNT ANALYTICAL INC.  
ADDRESS: 2400 BARRANCA PARKWAY  
IRVINE, CA 92606  
TELEPHONE: 949/757-8500  
(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

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

This product contains a toxic chemical or chemical subject to the reporting requirements of Emergency Planning and Community Right-to-Know Act (EPCRA) Section 313 (40 CFR Section 372).

### SECTION 1--MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS	%	OSHA PEL	ACGIH TLV	OTHER LIMIT RECOMMENDED
HYDRAZINE SULFATE (CAS #10034-93-2)	100	1ppm skin		0.01ppm skin
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.jtbaker.com/msds/englishhtml/H3633.htm> and our best scientific understanding of the solution.

### SECTION 2--PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	No information found.
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1.37
VAPOR PRESSURE (mm Hg/TEMPERATURE)	No information found.
MELTING POINT	254C (489F)
VAPOR DENSITY (AIR = 1)	No information found.
EVAPORATION RATE (= 1)	No information found.
SOLUBILITY IN WATER	3g/100g cold water.
APPEARANCE AND ODOR	White, free-flowing crystalline powder.

### SECTION 3--FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD USE	Fire is possible at elevated temperatures or by contact with an ignition source.
AUTO IGNITION TEMPERATURE	No information found
FLAMMABILITY LIMITS IN AIR BY VOLUME LEL UEL	No information found
EXTINGUISHER MEDIA	Water spray, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep fire exposed containers cool.
SPECIAL FIRE FIGHTING PROCEDURE	In the event of a fire, 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:	N/A

#### SECTION 4--REACTIVITY HAZARD DATA

STABILITY CONDITIONS TO AVOID: STABLE   x   UNSTABLE     
Heat, incompatibles.

INCOMPATIBILITY MATERIALS TO AVOID: Strong oxidizers. Metals, metal oxides, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce sulfur oxides and nitrogen oxides.

HAZARDOUS POLYMERIZATION: MAY OCCUR    WILL NOT OCCUR   x    
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID:

#### SECTION 5--HEALTH HAZARD DATA 905-761484

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

CARCINOGEN LISTED: NTP   x   IRAC    OSHA    NOT LISTED     
(It is anticipated by NTP to be a carcinogen, but it is not known for sure)

#### HEALTH HAZARDS

ACUTE: Depends on dosage (time exposed, concentration etc.)  
CHRONIC: Chronic exposure may affect the skin, liver, kidneys, blood.

SIGNS AND SYMPTOMS OF EXPOSURE: **WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES SEVERE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE KIDNEY, LIVER AND BLOOD DISORDERS. POSSIBLE CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA. Risk of cancer depends on duration and level of exposure. MAY CAUSE ALLERGIC SKIN REACTION.**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney, blood, or 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 lower and upper eyelids occasionally. Get medical attention immediately.

SKIN CONTACT: Immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 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): yes

SPECIAL OTHER (SPECIFY): For Hydrazine (CAS 302-01-2): If the exposure limit is exceeded and engineering controls are not feasible, wear a supplied air, full-facepiece respirator, airtight hood, or full-facepiece self-contained breathing apparatus. Breathing air quality must meet the requirements of the OSHA respiratory protection standard (29CFR1910.134). This substance has poor warning properties.

**PROTECTIVE CLOTHING AND EQUIPMENT:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**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. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

**WASTE DISPOSAL METHODS:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. 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:** Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS:** **WARNING! This chemical is known to the state of California to cause cancer**

**RATING:**

HEALTH 3

FLAMMABILITY 1

REACTIVITY 2

SPECIFIC Contact-3

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