

Supplier:

Hummel Croton Inc. 10 Harmich Road South Plainfield, NJ 07080

MSDS



Tel:908-754-1800 / Fax 908-754-1815

Dihydrazine Sulfate MSDS

In case of Emergengy Call Chemtrec ® (U.S.) (800)-424-9300 (International) (703)-527-3887

Section I. Chemical Product and Company Identification

HMIS Rating	
Health	2
Flammability	0
Reactivity	1
Personal Protection	Е

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Dihydrazine Sulfate	13464-80-7	100%	0.1 mg/m³ Skin*	0.013 mg/m³ Skin*

* These values are for Hydrazine

Section III Hazards Identification:

Hummel Croton Inc. 10 Harmich Road

Chemical Name: Dihydrazine Sulfate Synonym: Hydrazine hemisulfate

Chemical Formula: (H₄N₂)₂• H₂SO₄

(908)-754-1800

CAS Number: 13464-80-7

South Plainfield, NJ 07080

Accute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: Repeated or prolong exposure can cause: damage to the liver, damage to the kidneys & damage to the lungs

Accute Health Effects: Hydrazine is listed by NTP (sufficient evidence of carcinogenicity from studies in experimental animals), IARC (Possibly Carcinogenic to Humans: Limited evidence in humans in the absence of sufficient evidence in experimental animals.) and regulated as a carcinogen by NIOSH (carcinogen defined with no further categorization).

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flamable
Flash Points: Not Applicable
Auto-Ignition: Not Applicable
Flammable Limits: Not Applicable
Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Fire/Explosion Hazards: Emits toxic fumes under fire conditions. Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Crystals
Color: White
Odor: Odorless
Molecular Weight: 162.18
Boiling Point: Decomposes 180°C
Melting/Freezing Point: 45-55°C
Solubility In Water: 202g/100ml at ambient temperatures
Specific Gravity: Not Established

Section X. Stability And Reactivity

Stability:StableHazardous Polymerization:Will Not occurIncompatibilities:Oxidizing agents & basesInstable Conditions:Excessive temperatures (see Incompatibilities).Decomposition Temperature:Decomposes 180°CDecomposition products:Oxides of Nitrogen and Sulfur

Section XI. Toxicological Infomation

RTECS Number: N/A (see hydrazine hydrate MV8050000) *Routes of Exposure:* Eye contact. Ingestion. Inhalation. Skin contact. *Toxicity Data:* Orl-Rat LD50: 129 mg/kg for hydrazine hydrate *Chronic Toxic Effects:* Repeated or prolong exposure can cause: damage to the liver, damage to the kidneys & damage to the

lungs

Acute Toxic Effects: Harmful if swallowed, inhaled, or absorbed through skin material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, and shortness of breath, headache, nausea and vomiting. May cause allergic reaction harmful if swallowed, inhaled, or absorbed through skin. May cause allergic reaction. Can cause cns depression. May cause convulsions.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Toxic solid, inorganic N.O.S. (dihydrazine sulfate) UN Number: 3288 Class: 6.1 P.G.: III Label Code: 6.1 Reportable Quantity: RQ 1(0.454)

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List California Proposition 65:

SARA 313 Title III: This product is or contains chemical(s) known to the state of California to cause cancer.

Section 302 ExtremelyHazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

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