

Section 1 – Chemical Product and Company Identification

SDS Name: Adipic Dihydrazide

Use of Substance: Chemical Intermediate

Synonyms: None

Company: Charkit Chemical Company, LLC
32 Haviland Street Unit 1
South Norwalk, CT 06854
USA

Emergency contact: Chemtrec: 1-800-424-9300 (USA), 1-703-527-3887 (Intl)

Section 2 – Hazards Identification

Section 2 – Hazards Identification

OSHA Hazards: No known OSHA hazards

Pictogram:



Signal Word: Warning

Hazard Statements:

H315	Skin irritant – Category 2
H319	Eye irritant – Category 2A
H335	Respiratory irritant – Category 3

Precautionary Statements:

P280	Wear protective gloves/clothing/eye and face protection
P264	Wash thoroughly after handling
P302, P352	If on skin wash with plenty of soap and water
P305, P351, P338	If in eyes rinse with water for several minutes.
P337, P313	If eye irritation persists, get medical attention

Avoid generating dust. This material is considered to be a mildly combustible dust.

NFPA Rating: Health: 1 Flammability: 0 Reactivity: 0

Section 3 – Composition, Information on Ingredients

<u>CAS #</u>	<u>EINECS #</u>	<u>Chemical Name</u>	<u>%</u>	<u>OSHA-PEL</u>
1071-93-8	213-999-5	Adipic Dihydrazide	>97	N/A

Section 4 – First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower lids. Seek medical attention.

Skin: Flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure, to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 – Fire Fighting Measures

Explosion: Avoid generating dust: fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source could be a potential dust explosion hazard.

Fire Extinguishing Agents Recommended: Water Fog, CO₂, dry chemical powder, or appropriate foam.

Fire Extinguishing Agents to Avoid: None

Special Fire fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: May emit irritating fumes under fire conditions.

Section 6 – Accidental Release Measures

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Large Spills: Contain the spill, wet the material with a light water spray, and place into appropriate containers for disposal.

Small Spills: Contain the spill, wet the material with a light water spray, and place into appropriate containers for disposal.

The material is Non-Hazardous, however, disposal should be done only through an approved waste disposal facility.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid breathing dust, and contact with skin and eyes.

Storage: Store at - 20 C, and in a dry place. Store in tightly closed container.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system, or an oxygen deficient environment.

Eyes: Wear appropriate protective eyeglasses or chemical goggles.

Skin: Wear appropriate protective clothing and gloves to prevent skin exposure.

Respiratory: Wear NIOSH/MSHA approved respirator. Approved dust masks are effective.

Section 9 – Physical and Chemical Properties

Appearance and Odor: White odorless crystalline solid

Melting Point: 180 - 181 degrees C

Boiling Point: Unknown

Flash Point: > 150 degrees C

Vapor Pressure: N/A

Specific Gravity: N/A

pH: 1% solution is 6.5-8.0

Water Solubility: 50 g/l

Molecular Formula: C₆H₁₄N₄O₂

Molecular Weight: 174.2

Section 10 – Stability and Reactivity

Stability: stable under normal handling conditions.

Incompatibility: Avoid strong acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None expected.

Conditions to Avoid: Incompatibilities. **Avoid dust generation. This material could be a mildly combustible dust.**

Section 11 – Toxicological Information

Animal Toxicology: Dermal LD₅₀ is >2g/kg (rabbit), Oral LD₅₀ is >5 g/kg (rat).

Acute Toxicity: Irritation of the eyes and skin.

Chronic Toxicity: Not listed as a Carcinogen by ACGIH, IARC, NIOSH, NTP, or OSHA.

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

This material is non-hazardous, but must be disposed of in accordance with federal, state, and local regulations.

Section 14 – Transport Information

DOT Shipping Name: Adipic Dihydrazide, Non-Hazardous.

DOT Hazardous Class: Not Regulated

Section 15 – Regulatory Information

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi

Risk Phrases: R 36/37/38 – Irritating to eyes, skin, and respiratory system.

Safety Phrases: S 26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical aid, S 37/39 – Wear suitable gloves and eye/face protection.

TSCA: Listed on inventory

SARA Title 111 Reporting Requirements:

Section 311/312 Inventory reporting hazard categories: Acute

Section 313 Release reporting: Not required

Reportable Quantity: Not applicable

Section 16 – Additional Information

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Creation Date: 3/10/01 Revised: 5/20/10, Revised: 11/01/12

This information is believed to be accurate and is intended for general guidance. It should not be construed as a guarantee of its suitability for a particular application. Charkit Chemical Company, LLC. offers no warranties either expressed or implied, nor is freedom from any patent owned by Charkit Chemical Company, LLC. or others implied; neither is liability accepted for errors or omissions in the information. Typical properties of products are given for guidance only and do not necessarily represent manufacturing specifications.

500536