

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION Page: 1

Product: Adipic Dihydrazide- Technicure® ADH

Effective Date: 12/05/08

A&C Catalysts, Inc. 1600 W Blancke St. Linden, NJ 07036

Customer Information Center: 908-474-9393

2. COMPOSITION/INFORMATION ON INGREDIENTS

Adipic Acid Dihydrazide >98% C.A.S. Number 1071-93-8 EINECS Number 213-999-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

* White Powder. Odorless. Irritant to eyes, respiratory system and Skin. R/36/37/38 *

HMIS Ratings: HEALTH 1 FIRE 1 REACTIVITY 1 (Scale 0-4)

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: May cause eye irritation.

Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Prolonged or repeated exposure may cause skin irritation or reaction.

INGESTION: Seek Medical Attention.

INHALATION: Vapors are unlikely due to physical properties.

CANCER INFORMATION: No relevant information found. However Not Classified as a Carcinogen.

TERATOLOGY (BIRTH DEFECTS): No relevant information found.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID

EYE: Flush eyes with plenty of water; Seek medical attention.

SKIN: Wash off in flowing water or shower Seek Medical Attention if Irritation occurs.

INGESTION: Seek immediate medical attention.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care.

Treatment based on judgment of the physician in response to reactions of the patient.

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* OR (R) INDICATES A TRADEMARK OF A&C CATALYSTS, INC.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable to solid.

METHOD USED: Not applicable.

AUTOIGNITION TEMPERATURES: Not applicable.

FLAMMABLE LIMITS

LFL: Not applicable to solids.

UFL: Not applicable to solids.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to phenolics, carbon monoxide, carbon dioxide.

OTHER FLAMMABILITY INFORMATION: Dense smoke is emitted when burned without sufficient oxygen. Mechanical handling can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate.

EXTINGUISHING MEDIA: Foam, water, carbon dioxide, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. If material is molten, do not apply direct water stream. Use fine water spray or foam. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Clear non-emergency personnel from area. Isolate area. Avoid contact with eyes. Avoid contact with skin and clothing.

PROTECT THE ENVIRONMENT: Keep out of irrigation ditches, sewers and water supplies.

CLEANUP: Sweep up. Transfer to suitable and properly labeled containers. See Section 13, Disposal Considerations.

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7. HANDLING AND STORAGE

HANDLING: Good housekeeping and controlling of dusts are necessary for safe handling of product.

STORAGE: Store in a dry place. For storage information, refer to this product's Sales Specification sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION: In dusty atmospheres, use an approved dust respirator.

EXPOSURE GUIDELINE(S): None established.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: white powder or flake

ODOR: Odorless

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

BOILING POINT: Not applicable

FLASH POINT: >150C (302F)

SOLUBILITY IN WATER: 40%

SPECIFIC GRAVITY: Not Determined

MELT POINT: 180-182C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions.

See Storage, Section 7.

CONDITIONS TO AVOID: Product can decompose at elevated temperatures.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid contact with oxidizing materials. Avoid contact with acids, bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide Carbon Dioxide
Nitrogen Oxides.

HAZARDOUS POLYMERIZATION: Will not occur by itself.

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11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)
- SKIN: Irritant to Skin and Mucous Membranes.
INGESTION: No Information.
MUTAGENICITY: No Relevant Information Found
12. ECOLOGICAL INFORMATION Do Not Allow Undiluted product or large amounts of to reach ground water, water course or sewage system. Do not allow material to be released into the environment without proper permits
13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)
DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
- A&C CATALYSTS, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).
- FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

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14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

Maritime Transport IMDG Class: None

Air Transport ICAO-IT and IATA-DGR Class: None

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

See other sections for health and safety information.

Hazard Symbols Xi Irritant

Risk Phrases: 36/37/38 Irritating to eyes respiratory system and skin

U.S. REGULATIONS

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SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the

REGULATORY INFORMATION (CONTINUED)

EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:

WARNING:

This product does not contain chemical(s) known to the State of California to cause cancer.

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TOXIC SUBSTANCES CONTROL ACT (TSCA):
All ingredients are on the TSCA inventory or are not required to be
listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on
certain state lists as mentioned. Non-listed components may be shown
in the composition section of the MSDS.
CHEMICAL NAME CAS NUMBER LIST

None

OSHA HAZARD COMMUNICATION STANDARD:
This product is not a "Hazardous Chemical" as defined by the OSHA
Hazard Communication Standard, 29 CFR 1910.1200.
REGULATORY INFORMATION (CONTINUED)
CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials
Information System (WHMIS) Classification for this product is:
This product is not a "Controlled Product" under WHMIS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):
All substances in this product are listed on the Canadian Non-Domestic
Substances List (NDSL) or are not required to be listed.

16. OTHER INFORMATION

MSDS STATUS: Revised Section 15, Canadian Regulations.
* OR (R) INDICATES A TRADEMARK OF A&C CATALYSTS, INC.
The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult A&C Catalysts, Inc.
For Further Information.