

# MATERIAL SAFETY DATA SHEET

## AD-Here® HP Plus



Date Issued: 02/15/2008  
MSDS No: ZA70800  
Date Revised: 04/21/2008  
Revision No: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**GENERAL USE:** Liquid anti-strip  
**PRODUCT DESCRIPTION:** Modified polyamine  
**PRODUCT CODE:** ZA70800  
**PRODUCT FORMULATION NAME:** AD-Here® HP Plus  
**GENERIC NAME:** Amine mixture

#### MANUFACTURER

ArrMaz Custom Chemicals  
Mulberry  
4800 State Rd. 60 East  
Mulberry FL 33860

**Emergency Contact:** Richard Gillette  
**Product Stewardship:** 863-578-1221  
**Alternate Emergency Phone:** 863-578-1206

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CANUTEC (Canadian Transportation) :**(613) 996-6666  
**CHEMTREC (US Transportation) :**(800) 424-9300  
ArrMaz Custom Chemicals: (863) 578-1206

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Substance can cause severe skin, eye, and respiratory tract irritation/burning.

**IMMEDIATE CONCERNS:** This product is irritating to the eyes and skin. Inhalation will cause irritation to the upper respiratory tract. Large quantities will cause severe irritation to the mouth, throat and gastrointestinal tract resulting in nausea, vomiting and thermal burns.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes severe irritation or burns, may cause blindness.

**SKIN:** May cause skin corrosion, burns or ulcers. Skin permeation may occur in amounts capable of producing the effect of systemic toxicity.

**SKIN ABSORPTION:** Not determined

**INGESTION:** Harmful when swallowed. May cause burns to the digestive tract. May also cause collapse of blood pressure. Repeated exposures may also cause weight loss.

**INHALATION:** Irritation and burns to the respiratory system may occur accompanied with heartburn, nausea, vomiting and diarrhea. Repeated exposure may cause asthma like effects.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Causes eye irritation.

**SKIN:** Prolonged contact may cause irritation.

**INGESTION:** Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

**INHALATION:** Prolonged or excessive inhalation will cause respiratory tract irritation.

**CHRONIC EFFECTS:** Not determined

**CARCINOGENICITY:** No evidence of potential carcinogenicity.

**MUTAGENICITY:** Not determined.

#### REPRODUCTIVE TOXICITY

**REPRODUCTIVE EFFECTS:** Not determined.

**TERATOGENIC EFFECTS:** Not determined.

**ROUTES OF ENTRY:** Eyes, skin, lungs or gastrointestinal.

**SENSITIZATION:** May cause allergic skin reaction.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Reaction product (Adiponitrile/Hydrogen), High boiling fraction	50 - 70	68411-90-5	270-153-8

### 4. FIRST AID MEASURES

**EYES:** Flush eyes with water for 15 minutes. Get medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if rash develops. Wash contaminated clothing before reuse.

**INGESTION:** Get medical attention immediately. Do not induce vomiting.

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

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > (250°F) Pensky-Martens CC

**FLAMMABLE LIMITS:** Not determined

**EXTINGUISHING MEDIA:** CO<sub>2</sub>, foam, or dry chemical.

**EXPLOSION HAZARDS:** None.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>, NO<sub>x</sub>, and other thermal decomposition by-products.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Collect any wash water for disposal. Dispose of according to local, state and federal regulations.

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not allow to enter waterways.

**COMMENTS:** Waste disposal: Incinerate or bury in certified landfill according to federal, state and local regulations.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid temperatures near or above flash point. Use standard handling and safety procedures.

**STORAGE:** Avoid extreme heat or freezing conditions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** When this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**SKIN:** Impervious rubber or plastic.

**RESPIRATORY:** NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PROTECTIVE CLOTHING:** Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Ensure compliance with OSHA's personal protective equipment (PPE) standard, 29 CFR 1910.132 (general) and 138 (hand protection).

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Ammoniacal

**APPEARANCE:** Dark brown liquid.

**COLOR:** Dark brown.

**VAPOR PRESSURE:** Not determined

**VAPOR DENSITY:** > 1 (Air=1)

**BOILING POINT:** > (300°F)

**FLASHPOINT AND METHOD:** > (250°F) Pensky-Martens CC

**SOLUBILITY IN WATER:** Slight

**SPECIFIC GRAVITY:** 0.940 to 0.970 at (77°F)

**VISCOSITY:** Not determined

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** None

**CONDITIONS TO AVOID:** Oxidizing materials.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>, NO<sub>x</sub> and other thermal decomposition by-products.

**INCOMPATIBLE MATERIALS:** Strong oxidizers and materials that will react with amine products.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** Risk of serious damage to eyes.

**SKIN ABSORPTION:** Prolonged contact may cause irritation.

**EYE EFFECTS:** Risk of serious damage to eyes.

**SKIN EFFECTS:** Prolonged contact may cause irritation.

### CARCINOGENICITY

**IARC:** Not determined

**NTP:** Not determined

**OSHA:** Not determined

**IRRITATION:** Avoid skin contact

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Do not flush to sewer or to allow entry into any waterways.

**ECOTOXICOLOGICAL INFORMATION:** Not determined

**BIOACCUMULATION/ACCUMULATION:** Not determined

**AQUATIC TOXICITY (ACUTE):** Not determined

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** ArrMaz Custom Chemicals encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, ArrMaz Custom Chemicals recommends that organic materials, especially when characterized as hazardous waste, be disposed of by thermal treatment at approved facilities. All local and national regulations should be followed.

**RCRA HAZARD CLASS:** D002 RCRA Hazardous Waste

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Corrosive Liquid, Toxic, N.O.S.

**TECHNICAL NAME:** Bis (Hexamethylene) Triamine and Aminonitriles

**PRIMARY HAZARD CLASS/DIVISION:** 8+6.1

**UN/NA NUMBER:** UN 2922

**PACKING GROUP:** II

**PLACARDS:** Corrosive 8, Toxic 6.1

**LABEL:** Corrosive 8, Toxic 6.1

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

R48/20/21/22: Harmful : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.



Corrosive



Toxic-Secondary

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All of this product's components are listed in the TSCA inventory of chemicals.

**RCRA STATUS:** D002 Hazardous Waste

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** New

**APPROVED BY:** Richard Gillette      **TITLE:** MSDS Coordinator

**PREPARED BY:** Richard Gillette

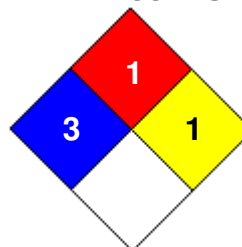
**INFORMATION CONTACT:** Richard Gillette

**REVISION SUMMARY:** Revision #: 1 This MSDS replaces the April 21, 2008 MSDS. Any changes in information are as follows: In Section 9 Odor

#### HMIS RATING

<b>HEALTH:</b>	<b>3</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>
<b>PERSONAL PROTECTION:</b>	<b>X</b>

#### NFPA CODES



#### MANUFACTURER DISCLAIMER:

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