

**TEAM**<sup>®</sup> Industrial Services  
**SAFETY DATA SHEET**

### 1. Product and Company Identification

**Material name** AC-1550  
**Version #** 00  
**Issue date** 01-14-2013  
**Revision date** 01-14-2013  
**Supersedes date** -  
**Chemical name** Organic Catalyst  
**Chemical description** Catalyst  
**CAS #** 100-97-0  
**Product code** 900-0052  
**Product use** Industrial Leak Sealant  
**Manufacturer information**  
**Manufacturer/Supplier** Team Industrial Services, Inc.  
200 Hermann Drive, Alvin, Texas 77511  
**Emergency Contact** CHEMTREC - 24 HOURS  
USA: CHEMTREC: 800-424-9300  
International: 703-527-3887 (Collect)

### 2. Hazards Identification

**Physical state** Solid.  
**Appearance** White powder with black specks.  
**Emergency overview** WARNING  
Flammable Solid.  
May cause allergic skin reaction. May cause eye, skin and respiratory tract irritation.  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Eye contact. Ingestion. Inhalation. Skin contact.  
**Eyes** Dust may irritate the eyes. Exposed individuals may experience eye tearing, redness, and discomfort.  
**Skin** May cause allergic skin reaction. Dust may irritate skin.  
**Inhalation** Dust may irritate throat and respiratory system and cause coughing.  
**Ingestion** May cause discomfort if swallowed.  
**Target organs** Eyes. Respiratory system. Skin.  
**Chronic effects** May cause allergic skin reaction. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
**Signs and symptoms** Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin irritation. Sensitization.  
**Potential environmental effects** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Hexamethylenetetramine	100-97-0	50 - 100

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Dust in the eyes: Do not rub eyes. Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.
<b>Skin contact</b>	Remove contaminated clothing. Wash immediately with soap and water for at least 15 minutes. In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.
<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.
<b>Ingestion</b>	Immediately give plenty of water (if possible charcoal slurry). Never give liquid to an unconscious person. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

**Notes to physician** Persons with pre-existing respiratory tract, skin and lung (such as asthma) disorders may be aggravated by exposure to this product. Symptoms may be delayed.

**General advice** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

**Flammable properties** Flammable solid.

### Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media** No restrictions known.

### Protection of firefighters

**Specific hazards arising from the chemical** Dust may form explosive mixture with air. During fire, gases hazardous to health may be formed.

**Protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire fighting equipment/instructions** Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**Hazardous combustion products** Ammonia. Carbon oxides. Cyanide compounds. Formaldehyde. Nitrogen oxides (NO<sub>x</sub>).

## 6. Accidental Release Measures

**Personal precautions** Avoid inhalation of dust and contact with skin and eyes. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Environmental manager must be informed of all major spillages.

**Methods for cleaning up** Eliminate all ignition sources. Avoid dust formation. Collect dust using a vacuum cleaner equipped with HEPA filter. The vacuum cleaner should be explosion-proofed. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Never return spills in original containers for re-use.

**Other information** Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

**Handling** Avoid inhalation of dust and contact with skin and eyes. Dust clouds may be explosive under certain conditions. Flammable Solid. Ground container and transfer equipment to eliminate static electric sparks. Use only with adequate ventilation. Use non-sparking tools and explosion-proof equipment. Use personal protective equipment as required.

**Storage** Follow rules for flammable solids. Keep away from heat, spark, open flames and other sources of ignition. Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials.

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering controls</b>	Ventilate as needed to control airborne dust. Observe occupational exposure limits and minimize the risk of inhalation of dust. Use explosion-proof equipment.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear approved safety goggles.
<b>Skin protection</b>	Wear protective gloves. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Seek advice from local supervisor.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical & Chemical Properties

<b>Appearance</b>	White powder with black specks.
<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	White with black specks.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	536 °F (280 °C) Sublimes.
<b>Solubility (water)</b>	Completely soluble in water.
<b>Specific gravity</b>	1
<b>Flash point</b>	381 °F (193.9 °C) Closed Cup
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	734 °F (390 °C)
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Other data</b>	
<b>Flash point class</b>	Combustible IIIB

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	The product is hygroscopic and will absorb water by contact with the moisture in the air.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong oxidizing agents. Attacks aluminum and zinc.
<b>Hazardous decomposition products</b>	Ammonia. Cyanide compounds. Formaldehyde.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

<b>Sensitization</b>	May cause allergic skin reaction.
<b>Acute effects</b>	May cause skin and eye irritation.

<b>Local effects</b>	Dust may irritate throat and respiratory system and cause coughing. May cause discomfort if swallowed.
<b>Chronic effects</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Carcinogenicity</b>	Not classified.
<b>Epidemiology</b>	Persons with pre-existing respiratory tract, skin and lung (such as asthma) disorders may be aggravated by exposure to this product.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Neurological effects</b>	Not available.
<b>Reproductive effects</b>	Not available.
<b>Teratogenicity</b>	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
<b>Symptoms and target organs</b>	Symptoms can include irritation, redness, scratching of the cornea, and tearing. Skin irritation. Sensitization.
<b>Further information</b>	No other specific acute or chronic health impact noted.

## 12. Ecological Information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation / Accumulation</b>	No data available.
<b>Partition coefficient</b>	No data available.
<b>Mobility in environmental media</b>	The product is soluble in water.

## 13. Disposal Considerations

<b>Waste codes</b>	Not regulated.
<b>Disposal instructions</b>	Dispose in accordance with applicable federal, state, and local regulations.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

<b>UN number</b>	UN1328
<b>Proper shipping name</b>	Hexamethylenetetramine
<b>Hazard class Packing group Environmental hazards</b>	4.1 III

**Marine pollutant** No

### IATA

<b>UN number</b>	UN1328
<b>UN proper shipping name</b>	Hexamethylenetetramine
<b>Transport hazard class(es) Packing group Environmental hazards</b>	4.1 III
<b>Labels required</b>	4.1

### IMDG

<b>UN number</b>	UN1328
<b>UN proper shipping name</b>	HEXAMETHYLENETETRAMINE
<b>Transport hazard class(es) Packing group</b>	4.1 III

**Environmental hazards**

**Marine pollutant** No  
**Labels required** 4.1

**TDG**

**Proper shipping name** HEXAMETHYLENETETRAMINE  
**Hazard class UN** 4.1  
**number Packing** UN1328  
**group Marine** III  
**pollutant Labels** No  
**required** 4.1

**15. Regulatory Information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
 All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)** No

**Section 311/312 (40 CFR 370)** Yes

**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)** Not controlled

**Canadian regulations** This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS status** Controlled

**WHMIS classification** B4 - Flammable Solids

**WHMIS labeling****Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

**US. Massachusetts RTK - Substance List**

Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

**16. Other Information**

**Further information** HMIS® is a registered trade and service mark of the NPCA.  
F - Safety Glasses, Gloves, Apron, Dust Respirator

**HMIS® ratings** Health: 2  
Flammability: 1  
Physical hazard: 0  
Personal protection: F

**NFPA ratings** Health: 2  
Flammability: 1  
Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.