

## AP Cat 107

Amine mixture used as catalyst for polyurethane resin.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AP Cat 107  
 MANUFACTURER: Alchemy-Spetec  
 ADDRESS: 4508 Bibb Blvd, Tucker, GA 30084  
 PHONE: (404) 618-0438  
 FAX: (678) 805-4783  
 WEBSITE: www.alchemy-spetec.com  
 FOR EMERGENCY: Call CHEMTREC Day or Night  
 1-800-424-9300 / +1 703-527-3887

### SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
Bis(2-dimethylaminoethyl) ether	98-94-23033-62-3	1-15%	ACGIH (TWA): 0.05 ppm ACGIH (STEL): 0.15 ppm
Hexadecyl-N, N dimethylamine, N-	112-69-6	10-30%	Oral LD50 (Rat): 1600 mg/kg

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### POTENTIAL HEALTH EFFECTS

EYES: Can Cause eye burns. May cause blindness. Severe eye irritation.

SKIN: Can cause skin burns.

INHALATION: May cause nose, throat, and lung Irritation.

INGESTION: Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

HAZARD STATEMENTS: WARNING, CORROSIVE, SEVERE EYE IRRITANT, SEVERE RESPIRATORY IRRITANT, SEVERE SKIN IRRITANT, SENSITIZER

### SECTION 4. FIRST AID MEASURES

EYES: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

SKIN: Immediately remove all contaminated clothing. For skin contact, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly

ly available, continue to irrigate for one hour.

**INHALATION:** If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Seek medical attention. If breathing is stopped or labored, give assisted respirations. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

**INGESTION:** If the material is swallowed, get immediate medical attention or advice – if vomiting occurs, turn head to prevent aspiration. Do not induce vomiting without medical advice.

## **SECTION 5. FIRE FIGHTING MEASURES**

**FLASH POINT:** > 200 degrees F (>93.4 degrees C)

**HAZARDOUS COMBUSTION PRODUCTS:** Decomposition of this product may emit oxides of nitrogen and carbon monoxide.

**EXTINGUISHING MEDIA:** Water spray, dry chemical, carbon dioxide. Alcohol foam. Dry sand, Limestone powder.

**GENERAL FIRE HAZARDS:** May generate ammonia gas. May generate toxic nitrogen oxide gases. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Fire or intense heat may cause violent rupture of packages. Flash back possible over considerable distance. May form explosive mixtures with air. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes. In the event of fire, cool tanks with water spray.

**FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**SPILLS, LEAKS, OR RELEASES:** For major spills call our 24 Hour Emergency Number (970-510-0034). Clean up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including appropriate respiratory protection. Evacuate the area. Prevent further leakage, spillage or entry into drains.

## **SECTION 7. HANDLING AND STORAGE**

**HANDLING PROCEDURES:** Avoid breathing aerosols, mists and vapors. Avoid contact with skin and eyes. Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage.

**STORAGE PROCEDURES:** Do not store near acids. Keep away from oxidizers. Keep containers tightly closed in a dry, cool and well-ventilated place. If container is exposed to high heat, it can be pressurized and possibly rupture explosively. Keep the container tightly closed and in a cool, well-ventilated place.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING MEASURES:** Maintain process conditions to ensure temperature is below product flashpoint. Ensure adequate ventilation. Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT**

EYES/FACE: Wear safety glasses; chemical goggles (if splashing is possible).

SKIN: Gloves – neoprene, nitrile rubber, butyl rubber. Thin latex disposable gloves should be avoided for repeated or long-term use. Protective clothing should be selected.

RESPIRATORY: When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.

**SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**

ODOR: Ammoniacal

PHYSICAL STATE: Clear, colorless liquid

BOILING POINT: >340 °F

VAPOR PRESSURE: not available

EVAPORATION RATE: not available

SOLUBILITY (H<sub>2</sub>O): partially soluble

**SECTION 10. CHEMICAL STABILITY & REACTIVITY INFORMATION**

CHEMICAL STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, flames and sparks.

HAZARDOUS DECOMPOSITION: By high heat and fire: carbon dioxide, carbon monoxide, and oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds.

INCOMPATIBILITY: Sodium hypochlorite, organic acids (i.e. acetic acid, citric acid etc.), mineral acids, reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Reactive metals (e.g. sodium, calcium, zinc etc.), materials reactive with hydroxyl compounds, oxidizing agents, acids, alkalies

**SECTION 11. TOXICOLOGICAL INFORMATION**

BIS(2-DIMETHYLAMINOETHYL)ETHER:

Ingestion LD50 (rat) 1070 mg/g

Inhalation LC50 (4 h, rat) 4 mg/L

Dermal LD50 (rabbit) >250 mg/kg

HEXADECYL-N, N-DIMETHYL AMINE, N-:

Ingestion LD50 (rat) 1600 mg/kg

**SECTION 12. ECOLOGICAL INFORMATION**

BIS(2-DIMETHYLAMINOETHYL)ETHER: No data available.

HEXADECYL-N, N-DIMETHYL AMINE, N-: No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

DISPOSAL INSTRUCTIONS: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Chemical waste, even in small quantities, should never be discarded down drain, sewers, or waterways.

**SECTION 14. TRANSPORTATION INFORMATION****DOT**

UN/ID No.: UN 2922  
 Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Bis(2-dimethylaminoethyl)ether)  
 Class or Division: 8  
 Packing Group: II  
 Label(s): 8 (6.1)  
 Marine Pollutant: No

**IATA**

UN/ID No.: UN 2922  
 Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Bis(2-dimethylaminoethyl)ether)  
 Class or Division: 8  
 Packing Group: II  
 Label(s): 8 (6.1)  
 Marine Pollutant: No

**IMDG**

UN/ID No.: UN 2922  
 Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Bis(2-dimethylaminoethyl)ether)  
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 Packing Group: II  
 Label(s): 8 (6.1)  
 Marine Pollutant: No

**TDG**

UN/ID No.: UN 2922  
 Proper Shipping Name: Corrosive Liquid, Toxic, N.O.S. (Bis(2-dimethylaminoethyl)ether)  
 Class or Division: 8  
 Packing Group: II  
 Label(s): 8 (6.1)  
 Marine Pollutant: No

Quart packaging ships as ORM-D

**SECTION 15. REGULATORY INFORMATION**

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

US FEDERAL REGULATIONS: All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA - Section 313 - Emission Reporting: No SARA hazards

**SECTION 16. OTHER INFORMATION**

HMIS RATINGS:  
 Health 3  
 Flammability 1  
 Reactivity 1  
 Protection C

**PREPARATION INFORMATION:**

March, 2016

This SDS is on a three year review cycle. If the date on this sheet is older than three years please contact Alchemy-Spetec for an updated SDS.

**DISCLAIMER:**

All information appearing herein is based on manufacturer and/ or recognized technical sources. While the information is believed accurate Alchemy-Spetec makes no represen-

