



# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. AA 16  
Effective Date January 12, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	ACETAMIDE
<b>Chemical Synonyms</b>	Acetic Acid Amide, Ethanamide
<b>Formula</b>	CH <sub>3</sub> CONH <sub>2</sub>
<b>Unit Size</b>	up to 2.5 Kg
<b>C.A.S. No.</b>	60-35-5

	CHEMTREC <b>800-424-9300</b> Day 716-226-6177	Health	2
		Fire	1
		Reactivity	0
<b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4		<b>HMIS *</b> 0 1 2 3 4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Glacial Acetic Acid: (CAS No. 64-19-7)	1%	None established.
Acetamide: (CAS No. 60-35-5)	> 95%	None established.

**WARNING! MAY CAUSE IRRITATION. MAY CAUSE BURNS.**

**SUSPECTED CARCINOGEN.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	81°C (178°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.159 @ 20°C
Boiling Point (°F)	221.2°C (432°F)	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	5 mm @ 92°C (198°F)	Evaporation Rate (n-Butyl acetate = 1)	Not applicable.
Vapor Density (Air=1)	2.04		
Solubility in Water	2 grams per mL. @ 20°C. (68°F)		
Appearance & Odor	Colorless white crystals; slightly mousy odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-volatile solid (NA).	<b>Flammable Limits in Air % by Volume</b>	N/A	Lower	Upper
<b>Extinguisher Media</b>	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray; foam.				

### SPECIAL FIREFIGHTING PROCEDURES

Material may burn, but does not ignite readily. Avoid high temperatures. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Moderate fire hazard when exposed to heat or flame; can react vigorously with strong oxidizing materials. Would vaporize in a fire. Combustion products may include toxic fumes of cyanide, nitrogen oxide, carbon monoxide or ammonia.

RTECS Ref. # AB4025000  
CARCINOGENIC REVIEW: ANIMAL POSITIVE.  
Cancer hazard based on tests with laboratory animals.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA AA 16

**Threshold Limited Value** None established (ACGIH 1992-93). Tumorigenic Data: orl-rat TDLo: 431 gm/kg/1Y-C, Toxicity: orl-rat LD50: 7000 mg/kg.

### Effects of Overexposure

May cause irritation to eyes, skin and respiratory tract. Ingestion of large quantities may be harmful. May cause stomach irritation and nausea. Details unknown. Limited animal experimentation shows low toxicity.

### Emergency and First Aid Procedures

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature, heat, sparks and flame. Prolonged exposure to air, light.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Bases and alkalies.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, oxides of nitrogen (NO<sub>x</sub>), cyanides if heated with strong dehydrating agents or ammonia.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>	Not applicable.
May Occur	Will Not Occur	
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

### Steps to be taken in case material is released or spilled

This material should be prevented from contaminating soil or from entering sewerage, draining systems and bodies of water. Prevent eye and skin contact. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Recover for use if not contaminated. Sweep up and place in a suitable container for disposal. Flush spill area with soap and water.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.

<b>Ventilation</b>	<b>Local Exhaust</b>	Recommended.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	Adequate to maintain below exposure limit.

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Smock, apron, goggles, proper gloves, ventilation hood, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place. Deliquescent material. Use with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Acetamide has been determined to be an animal carcinogen due to the formation of liver tumors in orally fed rats. No studies have yet to indicate that acetamide is a carcinogenic risk to humans. Precautions should be taken to minimize worker exposure.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 7	<b>Date</b> 1/12/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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