



**QUALIKEMS FINE CHEM PVT. LTD.**  
**5531,BASTI HARPHOOL SINGH,SADAR THANA ROAD,DELHI-06.**

Material Safety Data Sheet  
Acetamide

Section 1 - Chemical Product and Company Identification

**MSDS Name:** Acetamide

**Synonyms:** Acetic Acid Amide; Ethanamide; Methanecarboxamide.

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
60-35-5	Acetamide	100	200-473-5

Section 3 - Hazards Identification

**EMERGENCY OVERVIEW**

Appearance: white solid.

**Caution!** May cause eye and skin irritation. May cause respiratory tract irritation. May cause cancer based on animal studies. Potential cancer hazard. May cause liver damage. Hygroscopic (absorbs moisture from the air).

**Target Organs:** Liver.

**Potential Health Effects**

**Eye:** May cause eye irritation.

**Skin:** Causes mild skin irritation.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. May cause liver damage.

**Inhalation:** May cause respiratory tract irritation. May cause liver damage.

**Chronic:** Possible cancer hazard based on tests with laboratory animals. May cause cancer according to animal studies. Chronic exposure may cause liver damage.

Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dusts may be combustible when exposed to heat, flame, or oxidizing agents. Dust can be an explosion hazard when exposed to heat or flame.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water or foam may cause frothing. Use water spray to cool fire-exposed containers.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Avoid generating dusty conditions. Provide ventilation. Clean up residual material by washing area with a 2-5% solution of soda ash.

## Section 7 - Handling and Storage

**Handling:** Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use with adequate ventilation.

**Storage:** Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** white

**Odor:** mousy like odor

**pH:** Not available.

**Vapor Pressure:** Negligible.

**Vapor Density:** ~2

**Evaporation Rate:** Negligible.

**Viscosity:** Not available.

**Boiling Point:** 221 deg C

**Freezing/Melting Point:** 80 deg C

**Decomposition Temperature:** Not available.

**Solubility:** 200% in water.

**Specific Gravity/Density:** 1.16

**Molecular Formula:** C<sub>2</sub>H<sub>5</sub>NO

**Molecular Weight:** 59.07

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Dust generation, moisture, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizers, metals, halogenated materials.

**Hazardous Decomposition Products:** Carbon monoxide, oxides of nitrogen, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

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**RTECS#:**

**CAS#** 60-35-5: AB4025000

**LD50/LC50:**

CAS# 60-35-5:

Oral, mouse: LD50 = 12900 mg/kg;

Oral, rat: LD50 = 7 gm/kg;

**Epidemiology:** IARC Group 2B: Proven animal carcinogenic substance of potential relevance to humans.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

## Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

## Section 14 - Transport Information

	IATA	
<b>Shipping Name:</b>	NR	
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

## Section 15 - Regulatory Information

**Hazard Symbols:**

XN

**Risk Phrases:**

R 40 Limited evidence of a carcinogenic effect.

**Safety Phrases:**

S 36/37 Wear suitable protective clothing and gloves.

## Section 16 - Additional Information

**MSDS Creation Date:** 12/16/1998

**Revision #3 Date:** 10/03/2005

**Revision #4 Date:** 09/03/2010

**Revision #5 Date:** 08/03/2015

**Revision #6 Date:** 07/03/2020

**Revision #7 Date:** 06/03/2025

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