

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 16.50

Revision Date: March 15, 2001

Section 1 — Chemical Product and Company Identification

Acryamide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Acrylamide

Synonyms: propenamide, ethylene carboxamide

CAS#: 79-06-1

Section 3 — Hazards Identification

White crystalline solid.

Highly toxic irritant by ingestion. Irritating to body tissues. Avoid all body tissue contact.

Probable carcinogen. Causes central nervous system paralysis. Toxic by skin absorption; may be absorbed through unbroken skin.

FLINN AT-A-GLANCE

Health-3

Flammability-1

Reactivity-1

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Combustible solid.

Flash Point: 280 F (CC). When heated to decomposition, emits toxic fumes of NOx.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

H-3

F-2

R-2

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Use and dispense in a hood. Keep container tightly closed. Store in a poison cabinet or a Flinn Chem Saf-Can.

Store in a cool dry place.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). TWA 0.3 mg/m³ (OSHA), 0.03 mg/m³ (NIOSH, ACGIH).

Use exhaust ventilation to keep airborne concentrations low.

Section 9 — Physical and Chemical Properties

White crystalline solid.

Solubility: Soluble in water, methyl alcohol, ethyl alcohol, acetone. Insoluble in benzene and heptane.

Formula: CH₂=CHCONH₂

Formula Weight: 71.09

Specific Gravity: 1.12

Melting Point: 84.5 C

Section 10 — Stability and Reactivity

May polymerize on exposure to light or heat. Store in a cool, dark place. Avoid contact with strong oxidizers.

Shelf life: Poor.

Section 11 — Toxicological Information

Acute effects: toxic, irritant

Chronic effects: possible carcinogen, mutagen, neurological hazard, possible teratogen

Target organs: nervous system, skin, eyes

ORL-RAT LD50: 124 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: 400 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations.

Flinn Suggested Disposal Method #20 is one option.

Section 14 — Transport Information

Shipping Name: Acrylamide

Hazard Class: 6.1, keep away from food

UN Number: UN2074

N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (201-173-7), RCRA code U007.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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