

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 16.50

Revision Date: December 7, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Acrylamide

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.

A probable human carcinogen (IARC-2A).

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

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 and 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 or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

Flash point: 138 °C (Closed Cup).

When heated to decomposition, emits toxic fumes of NO_x.

Fire Fighting Instructions: Use a 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 the area. Remove all ignition sources and water. Sweep up the spill, place in a 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. Use exhaust ventilation to keep airborne concentrations low. 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).

Exposure guidelines: PEL 0.3 mg/m³ (OSHA), 0.03 mg/m³ (NIOSH, ACGIH).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White, crystalline solid.

Melting point: 84.5 °C

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

Specific gravity: 1.12

Formula: $\text{CH}_2=\text{CHCONH}_2$

Formula weight: 71.09

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

ORL-RAT LD₅₀: 124 mg/kg

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

IHL-RAT LC₅₀: N.A.

Target organs: nervous system, skin, eyes

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 review all federal, state and local regulations that may apply, before proceeding.

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

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**