Safety Data Sheet

Hazard Information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Chemical and Company Identification

Product name	Product code	
Acrylamide	GR141-1	*For research use only.*

Supplier

Hoefer, Inc.
84 October Hill Road, Suite 10
Holliston, MA 01746
Phone: 800-227-4750
508-893-8999

Emergency Contact
ChemTel Inc.
800-255-3924 (North America)
1-300-954-583 (Australia)
000-800-100-4086 (India)
800-099-0731 (Mexico)
+1-813-248-0585 (International)
0-800-591-6042 (Brazil)
400-120-0751 (Peoples Republic of China)

Composition / Ingredients

Hazard	CAS No.	RETCS	%WT	Molecular Formula	Molecular Weight
Acrylamide	79-06-01	AS3325000	>99	C_3H_5NO	71.08

Hazards Identification

GHS Classification:
Carcinogen: 1B
Germ cell mutagenicity: 1B
Reproductive toxicity: 2
Acute toxicity Oral: 3
Acute toxicity Inhalation: 4
Acute toxicity Dermal: 3
Skin irritant: 2
Eye irritant: 2
Specific target organ toxicity-repeated: 1
Acute Aquatic toxicity: 2

Pictogram

Signal Word: Danger

Hazard Statements:
H301: Toxic if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H340: May cause genetic defects.
H350: May cause cancer.
H361: Suspected of damaging fertility of the unborn.
H402: Toxic to aquatic life.

Precautionary Statements:
P201: Obtain special instructions before use.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304-P340: IF INHALED remove to fresh air and keep at rest in a position comfortable for breathing.
P302+P352: IF ON SKIN: wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Potential Health Effects:
Routes of entry: Eyes, skin, inhalation, ingestion
Target Organs: Eyes, CNS, kidneys, reproductive system
Eyes: Toxic when in contact with eyes. Harmful. Causes irritation.
Skin: Toxic when in contact with skin. Readily absorbed through skin. Harmful. Can cause dermatitis. Effects can result from single exposure, or with repeated contact. Peeling and redness may occur at exposure sites.

Ingestion: Harmful if ingested. Initial symptoms, numbness, tingling and touch tenderness. Prolonged exposure leading to coldness of extremities, excessive sweating, bluish-red and peeling of palms, marked fatigue and limb weakness.
Inhalation: Can be absorbed through the lungs to produce the signs and symptoms of neurotoxicity as described above.
CHRONIC HEALTH HAZARDS: Repeated exposure may cause dermatitis. May cause cancer. May cause CNS disturbances

First Aid Measures

Eyes: Flush eyes with water. GET MEDICAL ATTENTION.
Skin: In case of contact, flush area immediately with water. Remove clothing. GET MEDICAL ATTENTION.
Inhalation: Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.
Ingestion: Wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

Fire-Fighting Measures

Combustible solid: When dealing with fire wear self-contained breathing apparatus. Avoid hazardous vapors and dust.
Flammable: No **Flash Point:** N/A
Autoignition Temperature: 464°C
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide. **Explosion Data:** Not available.

Accidental Release Measures

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.
Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container.

Handling and Storage

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation. Use in fume hood.
Storage Conditions: Room temperature. Keep away from heat (above 50°C) and ignition source.

Exposure Controls/Personal Protection

Exposure Limits:
ACGIH: 0.03 mg/m^3 TWA
NIOSH: 0.03 mg/m^3 TWA 60 mg/m^3 IDLH
OSHA: 0.3 mg/m^3 TWA
Use adequate ventilation. AVOID DUST GENERATION.
Wear appropriate protective equipment to prevent eye and skin exposure. Wear appropriate respirator to prevent lung irritation.
Personal Protection: Lab coat, safety goggles, rubber gloves.
Ventilation: Local exhaust systems. Use fume hood.
Respiratory protection: NIOSH/MSHA approved respirator.

Physical and Chemical Properties

Physical State: Solid
Appearance and Odor: White crystalline, odorless
Melting Point: 85°C **Boiling Point:** 125°C
Specific Gravity: 1.122 **Vapor Density:** 2.45
Water Solubility: Soluble **pH:** N/A
Decomposition Temp: 84°C

Stability and Reactivity

Conditions to avoid: Dust generation
Stability: Stable at normal room temperature and pressure. May polymerize if heated to melting point. May polymerize on exposure to light. May form explosive dust–air mixtures.
Incompatibility: Metals, oxidizing agents, reducing agents, bases, and acids
Hazardous Decomposition Products: Thermal decomposition may produce toxic fumes of carbon monoxide and carbon dioxide.
Hazardous Polymerization: May occur see above.

Toxicological Properties

Exposure Limits:
LD_{50} / LC_{50}:
SKN-RBT: 50 mg/3D MLD
SKN-RBT 500 mg /24 hr MLD
EYE-RBT 10 mg /30S RINSE MLD
EYE-RBT 100 mg/24 hr MOD
ORL-RAT LD_{50}:124 mg/kg
IPR-RAT LD_{50}: 90 mg/kg
UNR-RAT LD_{50}: 208 mg/kg
ORL MUS LD_{50}:107 mg/kg
Teratogenicity: See entry for RTECS.
Epidemiology: Confirmed carcinogen in animals
Reproductive Effects: Have occurred in experimental animals.
Neurotoxicity: Have occurred in humans.
Mutagenicity: See RTECS.
Carcinogenicity: Confirmed animal carcinogen ACGIH
NTP: Suspected carcinogen **IARC:** Group 2A carcinogen

Ecological Information

No information found.

Disposal Considerations

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial, and local regulations.

Transportation Information

Shipping Information:
US DOT: Acrylamide, hazard class, 9. UN number: UN 3316. Packing group: II
Canada TDG: Acrylamide Hazard Class: 6.1, Packing Group: 111 CLASS 6.1 UN Number UN2074

Regulatory Information

US: TSCA listed **Canada:** WHMIS: D1B, D2A
Listed on DSI list as controlled product.
Listed on the Canadian Ingredient Disclosure list.

Additional Information

Hazard Rating System

NFPA	Health	Fire	Reactivity
	2	2	2

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations

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