



MATERIAL SAFETY DATA SHEET

Acrylamide

Section 1 - Chemical Product and Company Identification

MSDS Name:	Acrylamide
Synonyms:	Ethylenecarboxamide; 2-Propenamide
Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701/712 A, Embassy Centre, Nariman Point, Mumbai - 400 021.
For information in the INDIA, call:	+91 - 22 - 2282 4444 (50 Lines)

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
79-06-1	Acrylamide	99+%	201-173-7

Hazard Symbols:	T
	
Risk Phrases:	45 46 25 36/38 43 48/23/24/25 62

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact. May cause cancer. May cause heritable genetic damage. Toxic : danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed. Possible risk of impaired fertility. Light sensitive. Air sensitive.

Potential Health Effects

Eye:	Causes moderate eye irritation. Causes redness and pain.
Skin:	Causes mild skin irritation. Harmful if absorbed through the skin. May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. If absorbed, causes symptoms similar to those of ingestion. Causes redness and pain.
Ingestion:	Can cause nervous system damage. Toxic if swallowed.
Inhalation:	Harmful if inhaled. May cause effects similar to those described for ingestion. May cause respiratory tract irritation.
Chronic:	Chronic ingestion may cause liver damage. Prolonged or repeated exposure may cause adverse reproductive effects. May cause cancer according to animal studies.

Section 4 - First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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 immediately. Wash mouth out with water.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Notes to Physician:	



Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. Containers may explode in the heat of a fire.
Extinguishing Media:	Water or foam may cause frothing. Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide.

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.

Section 7 - Handling and Storage

Handling:	Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a chemical fume hood. Store and handle protected from air.
Storage:	Do not store in direct sunlight. Store in a tightly closed container. Store in a dry area. Keep refrigerated. (Store below 4°C/39°F.)

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 adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
Exposure Limits	CAS# 79-06-1: United Kingdom, WEL - TWA: 0.3 mg/m3 TWA United Kingdom, WEL - STEL: 0.9 mg/m3 STEL United States OSHA: 0.3 mg/m3 TWA Belgium - TWA: 0.03 mg/m3 VLE France - VME: 0.1 ppm VME; 0.3 mg/m3 VME Germany: 0.06 mg/m3 TWA (solid); 0.03 mg/m3 TWA Germany: skin notation Japan: 0.1 mg/m3 OEL Malaysia: 0.03 mg/m3 TWA Russia: 0.05 mg/m3 TWA (vapour) Spain: 0.03 mg/m3 VLA-ED

Personal Protective Equipment

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



Section 9 - Physical and Chemical Properties

Physical State:	Crystalline powder
Color:	white
Odor:	odorless
pH:	6.5-6.5 (5% aq.sol.)
Vapor Pressure:	5.3hPa @100 deg C
Viscosity:	Not available
Boiling Point:	125 deg C @25mmHg (257.00°F)
Freezing/Melting Point:	83 - 85 deg C
Autoignition Temperature:	424 deg C (795.20 deg F)
Flash Point:	138 deg C (280.40 deg F)
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	
Solubility in water:	215.5 g/100 ml (30°C)
Specific Gravity/Density:	
Molecular Formula:	C3H5NO
Molecular Weight:	71.08

Section 10 - Stability and Reactivity

Chemical Stability:	Stable. However, may decompose if heated.
Conditions to Avoid:	Incompatible materials, light, ignition sources, exposure to air, temperatures above 50°C (122°F).
Incompatibilities with Other Materials	Metals, strong oxidizing agents, reducing agents, acids, bases, aluminum, brass, bronze, copper, iron, iron metals.
Hazardous Decomposition Products	Carbon monoxide, oxides of nitrogen, carbon dioxide, hydrogen gas, ammonia.
Hazardous Polymerization	May occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 79-06-1: AS3325000
LD50/LC50:	RTECS: CAS# 79-06-1 : Draize test, rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 50 mg/3D Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Oral, mouse: LD50 = 107 mg/kg; Oral, rabbit: LD50 = 150 mg/kg; Oral, rat: LD50 = 124 mg/kg; Skin, rabbit: LD50 = 1680 uL/kg; Skin, rat: LD50 = 400 mg/kg;
Carcinogenicity:	Acrylamide - ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans California: carcinogen, initial date 1/1/90 NTP: Suspect carcinogen IARC: Group 2A carcinogen
Other:	See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:	Fish: Bluegill/Sunfish: LC50: 100 mg/l; 96H; Fish: Rainbow trout: LC50: 110-180 mg/l; 96H; Fish: Fathead Minnow: LC50: 120 mg/l; 96H;
Other:	Biodegradable. log Pow: -0.67 to -1.65



Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	ACRYLAMIDE, SOLID	ACRYLAMIDE, SOLID	ACRYLAMIDE, SOLID
Hazard Class:	6.1	6.1	6.1
UN Number:	2074	2074	2074
Packing Group:	III	III	III

USA RQ: CAS# 79-06-1: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

- R 45 May cause cancer.
- R 46 May cause heritable genetic damage.
- R 25 Toxic if swallowed.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitization by skin contact.
- R 48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, Contact with skin and if swallowed.
- R 62 Possible risk of impaired fertility.

Safety Phrases:

- S 53 Avoid exposure - obtain special instructions before use.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

- CAS# 79-06-1: 3

Canada

- CAS# 79-06-1 is listed on Canada's DSL List

US Federal

- TSCA
- CAS# 79-06-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: August 27, 2008

Revision #0 Date

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