

**MATERIAL SAFETY DATA SHEET****Urea****Section 1 - Chemical Product and Company Identification**

MSDS Name:	Urea
Synonyms:	Carbamide
Company Identification:	Hazel Mercantile Ltd
Company Identification: (INDIA)	701/712A, 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#
57-13-6	Urea	99%	200-315-5

Hazard Symbols:	XI
	
Risk Phrases:	38

Section 3 - Hazards Identification**EMERGENCY OVERVIEW***Irritating to skin.***Potential Health Effects**

Eye:	May cause eye irritation. Causes redness and pain.
Skin:	Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.
Ingestion:	Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause cardiac disturbances. May be harmful if swallowed.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:	Prolonged or repeated exposure may cause adverse reproductive effects.

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:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
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.
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.
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.

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 generating dusty conditions.

Section 7 - Handling and Storage

Handling:	Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing.
Storage:	Store in a cool, dry place. Store in a tightly closed container.

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 ventilation to keep airborne concentrations low.	
Exposure Limits	CAS# 57-13-6:
Personal Protective Equipment	
Eyes:	Wear chemical splash goggles.
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:	Solid
Color:	white
Odor:	ammonia-like
pH:	7.5-9.5 (10% aq. solution.)
Vapor Pressure:	1.25mmHg @25 deg C
Viscosity:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	131 - 135 deg C
Autoignition Temperature:	Not available
Flash Point:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	
Solubility in water:	1080 g/l (20°C)
Specific Gravity/Density:	
Molecular Formula:	CH4N2O
Molecular Weight:	60.06



Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, temperatures above 130°C.
Incompatibilities with Other Materials	Strong oxidizing agents, dichromates, liquid chlorine, nitrates, permanganates, sodium hypochlorite, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, sodium nitrite.
Hazardous Decomposition Products	Carbon monoxide, oxides of nitrogen, carbon dioxide, ammonia.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 57-13-6: YR6250000
LD50/LC50:	RTECS: CAS# 57-13-6: Oral, mouse: LD50 = 11 gm/kg; Oral, rat: LD50 = 8471 mg/kg; Other: Skin, rat: LD50=8.2 g/kg
Carcinogenicity:	Urea - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity:	Fish: Guppy: LC50: 17500 mg/L; 96h; Fish: Leuciscus idus: LC50 > 6810 mg/L; 96h; Daphnia: Daphnia: EC50: >10000 mg/L; 24h;
Other:	Biodegradable. Log Pow: -1.59

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:	Not regulated.	Not regulated.	Not regulated.
Hazard Class:			
UN Number:			
Packing Group:			

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
➤ R 38 Irritating to skin.
Safety Phrases:
➤ S 37 Wear suitable gloves.
WGK (Water Danger/Protection)
➤ CAS# 57-13-6: 1
Canada
➤ CAS# 57-13-6 is listed on Canada's DSL List
US Federal
➤ TSCA
➤ CAS# 57-13-6 is listed on the TSCA Inventory.



Section 16 - Other Information

MSDS Creation Date:	08/16/2007
Revision #1 Date	

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