

## 1. Product and Company Identification

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Product Name                      Cyclo Hexyl Amine  
Part Number                        RXSOL-19-1286-050

### Company Details:

**RX MARINE INTERNATIONAL**  
**105, A wing , BSEL , TECH PARK.**  
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## 2. Composition / Information on ingredients

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Component	CAS-No	EC Number	Percentage	
Cyclo Hexyl Amine	108-91-8	203-629-0	100 %	

## 3. Hazards Identification

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Signal Word	:		I Harmful, Corrosive
Hazard Statements/Potential Health Effects	:		Very hazardous in contact with skin (irritant), of ingestion (irritant), of contact with eyes (irritant), of contact with skin (irritant). Vapour or spray mist may penetrate membranes of eyes, nose and throat, produce burns. Inhalation causes irritation of respiratory tract or shortness of breath. Inflammation of the skin, redness, itching. Skin inflammation, redness, or, occasionally, blisters.
Potential Chronic Health Effects:	:		CARCINOGENIC (IARC Group 2B, animal.) by ACGIH. TERATOGENIC EFFECTS: TOXICITY: Not available. In the respiratory system, upper respiratory tract irritation. Prolonged contact with the substance can produce irritation and severe irritation and severe irritation and severe exposure to spray mist leading to frequent irritation and severe exposure to an high concentration leading to deterioration of health of organs.
Environmental hazards	:		Environmental effects on aquatic organisms in aquatic environment.

## 4. First Aid Measures

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Eye Contact:	:	Check for and remove any contact lenses. Flush with running water for at least 15 minutes. Cold water may be used if available. Seek medical attention.
Skin Contact	:	If the chemical got onto the skin, remove the contaminated clothing immediately. Wash the contaminated skin with soap and water. If the chemical got on the face, wash the face with soap and water. Gently and thoroughly wash the skin with soap and water. If irritation persists, seek medical attention. Wash folds, crevices, creases and jewelry. If irritation persists, seek medical attention before reusing clothing.
Serious Skin Contact	:	Wash with a disinfectant. Wash with an anti-bacterial cream.
Inhalation	:	Allow the victim to rest. Seek medical attention.
Serious Inhalation	:	Evacuate the victim to fresh air. Remove tight clothing such as a diving mask. If difficult, administer oxygen. Do not perform mouth-to-mouth resuscitation. If the victim is unconscious, perform mouth-to-mouth resuscitation when the victim is not breathing. If the victim is corrosive. Seek immediate medical attention.
Ingestion	:	Do not induce vomiting. If the victim is conscious, give water to drink. If the victim is unconscious, do not give anything by mouth. If the victim is unconscious, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

## 5. Fire-fighting Measures

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Flammability of the Product	:	Flammable.
Auto-Ignition Temperature	:	293°C (559.4°F)
Flash Points	:	CLOSED CUP: 31°C (87.8°F) (Cleveland).
Flammable Limits	:	Not available.
Products of Combustion	:	These products are carbon dioxide and water.
Fire Hazards in Presence of Various Substances	:	Flammable in presence of oxidizing materials.
Explosion Hazards in Presence of Various Substances	:	Risks of explosion of the product are not available. Risk of explosion in presence of static discharge: Not available.
Fire Fighting Media and Instructions	:	Flammable liquid, soluble in water. Use DRY chemical powder, foam, water spray or fog. Cool containers to prevent pressure build-up.

## 6. Accidental Release Measures

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Personal Precaution		Use personal protective equipment (PPE) such as a respirator, goggles, and gloves. Avoid breathing mist or gas. Ensure adequate ventilation. Evacuate personnel if necessary. Do not allow product to accumulate to form explosive atmospheres. Do not allow product to accumulate in low areas.
Environmental Precaution	:	Do not let product enter drains, sewers, or waterways.
Small Spill		Dilute with water and mop up with absorbent material and place in an appropriate container. If necessary: Neutralize the residue with a weak acid solution.
Large Spill		Flammable liquid. Corrosive. Keep away from sources of ignition. Absorb with DRY earth absorbent material. Do not get water into container. Use water spray to cool containers. Prevent entry into sewers, basements, or confined spaces. Eliminate all ignition sources. Neutralize the residue with a weak acid solution. Be careful that the product is not over-neutralized. Check TLV and OSHA PEL above TLV. Check TLV and OSHA PEL with local authorities.

## 7. Handling and Storage

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Handling	:	Keep locked up. Keep away from sources of ignition. Do not ingest. Do not breathe vapors. Never add water to container. Use in well-ventilated area. Wear suitable PPE. Seek medical advice immediately if exposed. Avoid contact with skin and eyes.
Storage		Flammable materials should be stored in a fire-resistant cabinet or room. Keep away from sources of ignition. Keep containers in a well-ventilated place. Grounded and bonded. Refrigerated room would be preferred. Storage temperature point lower than 37.8°C.

## 8. Exposure controls and personal protection

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Engineering Controls		Provide exhaust ventilation to keep the airborne concentration below the respective threshold limit value (TLV) and safety showers are provided.
Personal Protection		Face shield. Full suit. Vapor protective respirator (approved/certified respirator). Boots. Splash goggles. Full body protection. A self-contained breathing apparatus (SCBA) may not be sufficient; consult a specialist.
Other Protection		Provide eyewash station and safety showers. Provide protective clothing as appropriate to prevent contamination. If there is a spill, use appropriate PPE.

		shield. Wear plastic apron large amounts. HYGIENE each work shift and before Promptly remove contaminant before reuse
Exposure Limits		TWA: 10 (ppm) TWA: 40 acceptable exposure limits.



## Gloves Suit

### 9. Physical and chemical properties

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Physical State	:	Liquid
Appearance	:	Clear Liquid
Odor	:	Amine like.
Test	:	Not available.
Molecular Weight	:	99.17 g/mole
PH	:	11
Boiling Point/Range	:	134.5°C (274.1°F)
Melting / Freezing Point	:	-17.7°C (0.1°F)
Flash Point	:	32 °C
Specific Gravity	:	0.8647 (Water = 1)
Evaporation Rate	:	10.7 mm of Hg (@ 20°C)
Lower Explosion Limit	:	No data available.
Vapor Pressure	:	10.7 mm of Hg (@ 20°C)
Vapor Density	:	3.42 (Air = 1)
Volatility	:	Not Available
Odor Threshold	:	26 ppm
Water/Oil Dist. Coeff	:	The product is more soluble in oil; log(oil/water) = 1.5
Ionicity (in Water)	:	Not available
Solubility	:	Easily Soluble in Cold Water

### 10. Stability and reactivity

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Stability	:	This Product is stable
Instability Temperature	:	Not Available
Hazardous reactions	:	No dangerous reaction known
Conditions to avoid	:	Heat, flames and sparks.
Conditions of Instability	:	Not Available
Incompatibility with various substances	:	Not available
Corrosivity	:	Non-corrosive in presence of
Special Remarks on Reactivity	:	Not Available
Special Remarks on Corrosivity	:	Not Available

## 11. Toxicological information

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Acute toxicity	:	LD50 Oral - rat - 11 mg/kg Remarks: Behavioral:Food intake Respiration:Pulmonary embolism Gastrointestinal:Other changes LC50 Inhalation - rat - 7,500 mg/m <sup>3</sup> Remarks: Behavioral:Excitement contraction or spasticity. LD50 Dermal - rabbit - 277 mg
Acute oral toxicity (LD50)	:	156 mg/kg [Rat]. Acute dermal [Rabbit].
Irritation and corrosion		Skin - rabbit - Severe skin irritant Eyes - rabbit - Severe eye irritant
Chronic exposure		This product is or contains a component as to its carcinogenicity based on EPA classification. IARC: No component of this product than or equal to 0.1% is identified as a confirmed human carcinogen by IARC. NTP: No component of this product than or equal to 0.1% is identified as a carcinogen by NTP. OSHA: No component of this product than or equal to 0.1% is identified as a carcinogen by OSHA.
Signs and Symptoms of Exposure		Material is extremely destructive to membranes and upper respiratory tract. Shortness of breath, Headache
Potential Health Effects		<b>Inhalation:</b> May be harmful if inhaled. destructive to the tissue of the respiratory tract. <b>Skin Toxic:</b> if absorbed through skin. <b>Eyes :</b> Causes eye burns. <b>Ingestion :</b> May be fatal if swallowed.

## 12. Ecological information

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Ecotoxicity	:	Not available
BOD5 and COD	:	Not available
Products of Biodegradation	:	Possibly hazardous short term likely. However, long term degradation
Toxicity of the Products of Biodegradation	:	The products of degradation are
Special Remarks on the Products of Biodegradation		Not Available

## 13. Disposal considerations

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Waste treatment methods Product	:	The product should not be allowed to courses or the soil. Where possible disposal or incineration.If recycled
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		dispose of in compliance with local regulations. Do not dispose of wastes in an approved waste disposal site.
Contaminated packaging	:	Dispose of as unused product. Empty containers should be taken to an approved waste handling facility for disposal. Do not re-use empty containers.
Disposal	:	Dispose of waste and residues in accordance with local authority requirements.

## 14. Transport information

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**DOT Classification:** CLASS 8: Corrosive liquid.

**Identification:** : Corrosive liquids n.o.s. : UN2357 PG: II

**Special Provisions for Transport:** Not available.

## 15. Regulatory information

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Federal and State Regulations	:	Pennsylvania RTK: Cyclohexylamine Minnesota RTK: Cyclohexylamine Massachusetts RTK: Cyclohexylamine Cyclohexylamine TSCA 8(b) 1 SARA 302/304/311/312 extremely hazardous substance Cyclohexylamine CERCLA: Cyclohexylamine Cyclohexylamine Other Regulatory definition of Hazardous Material (49 CFR 1910.1200). Other Classifications:
WHMIS (Canada)	:	CLASS B-2: Flammable liquid with boiling point at 37.8°C (100°F). CLASS D-1B: Material that causes severe and serious toxic effects (TOXIC). Liquid.
DSCL (EEC)	:	R10- Flammable. R38- Irritating. R41- Causes serious damage to eyes
HMIS (U.S.A.)	:	Health Hazard: 3 Fire Hazard: 3 Reactivity: 0
National Fire Protection Association (U.S.A.)	:	Health: 3 Flammability: 3 Reactivity: 0
Protective Equipment	:	Gloves. Full suit. Vapor respirator or approved/certified respirator or equivalent respirator when ventilation is inadequate.

## 16. Other information

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Full text of R-Phrases

R10 Flammable.

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R62 Possible risk of impaired fertility.

SAFETY PHRASES

S1/2 Keep locked up and out of the reach of children.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

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