

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: CYCLOHEXYLAMINE

CAS Number: 108-91-8

1. IDENTIFICATION:

Product Code : 91941

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Physical hazards**

Flammable liquids : Category 3

Health hazards

Acute toxicity : Category 4

Acute toxicity : Category 4

Skin corrosion : Sub-category 1B

Serious eye damage : Category 1

Reproductive toxicity : Category 2

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement : Flammable liquid and vapour.
: Harmful if swallowed or in contact with skin.
: Causes severe skin burns and eye damage.
: Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.



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- Response** : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Cyclohexylamine	108-91-8	NLT 99.0%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen.
Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed** : Toxic if inhaled. Irritating to eyes, respiratory system and skin.
- Indication of immediate medical attention and special treatment needed** : Symptoms may be delayed. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

- General information** : Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media** : Foam, dry powder or carbon dioxide.



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Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Appropriate engineering controls : No data available

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

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	area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear,Colorless liquid.
Odor	: No data available
Solubility	: No data available
Formula	: C ₆ H ₁₃ N
Molecular Weight	: 99.17 g/mol
Specific Gravity	: 0.86 (25 °C)
pH	: 11.5 (20 °C)
% Volatiles by volume @ 21C (70F)	: No data available
Boiling Point	: 134 °C
Melting Point	: -17 °C
Flash Point	: 27 °C
Vapor Density (Air=1)	: No data available
Vapor Pressure (mm Hg)	: 30.66 hPa (37.7 °C) 13.33 hPa (22 °C)
Evaporation Rate (BuAc=1)	: No data available

10. STABILITY AND REACTIVITY:

Reactivity	: Vapour/air-mixtures are explosive at intense warming.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Hazardous reactions : Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! Violent reactions possible with: Strong oxidizing agents Acid chlorides Acid anhydrides halogens organic nitro compounds sodium hypochlorite acids.
Conditions to avoid	: Heating.

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Incompatible materials : Materials to avoid : various plastics Copper Copper alloys.
Hazardous decomposition products : In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Inhalation Product : LD50 Oral - Rat - male - 432 mg/kg
Remarks: (ECHA)
Acute toxicity estimate Oral - 432 mg/kg
: (ATE value derived from LD50/LC50 value)
Inhalation: No data available
Acute toxicity estimate Dermal - 1.100,1 mg/kg
(Expert judgement)

Repeated dose toxicity Product : No data available.

Skin corrosion/irritation Product : Skin - Rabbit
: Result: Corrosive - 20 h
Remarks: (ECHA)

Serious eye damage/eye irritation Product : Eyes - Rabbit
: Result: Corrosive
Remarks: (ECHA)

Respiratory or skin sensitization Product : No data available

Carcinogenicity Product : No data available

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans : No data available

US. National Toxicology Program (NTP) Report on Carcinogens : No data available

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) : No data available.

Germ cell mutagenicity : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
: Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: (ECHA)
Test Type: unscheduled DNA synthesis assay
Test system: rat hepatocytes

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	Metabolic activation: without metabolic activation
	Result: negative
	Remarks: (ECHA)
In vitro Product	: No data available.
Reproductive toxicity Product	: Suspected of damaging the unborn child. Suspected of damaging fertility.
Specific target organ toxicity - single exposure Product	: No data available.
Specific target organ toxicity - repeated exposure Product	: No data available.
Aspiration hazard Product	: No data available.
Other effects	: None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	LC50 (Oryzias latipes): 33 mg/l End point: mortality Exposure time: 96 h : Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Aquatic invertebrates Product	EC50 (Daphnia magna (Water flea)): 36.3 mg/l End point: Immobilization Exposure time: 48 h : Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes

Chronic hazards to the aquatic environment

Fish Product	: This product has no known ecotoxicological effects.
Aquatic invertebrates Product	NOEC: 1.6 mg/l End point: reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) : Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes EC50: 3.9 mg/l End point: reproduction rate

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	Exposure time: 21 d
	Species: Daphnia magna (Water flea)
	Test Type: semi-static test
	Analytical monitoring: yes
	Method: OECD Test Guideline 211
	GLP: yes
Toxicity to Aquatic Plants Product:	ErC50 (Pseudokirchneriella subcapitata): 29.3 mg/l
	Exposure time: 72 h
	Test Type: static test
	Analytical monitoring: yes
	Method: OECD Test Guideline 201
	GLP: yes
Persistence and degradability	
Biodegradation Product	Test Type: aerobic
	Concentration: 2.4 mg/l
	Result: Readily biodegradable.
	Biodegradation: 92 %
	Exposure time: 20 d
	Method: Regulation (EC) No. 440/2008, Annex, C.4-E
BOD/COD ratio Product	: No data available.
Bioaccumulative potential	
Bioconcentration factor (BCF) Product	: No data available.
Partition coefficient n-octanol / water (log Kow) Product	log Pow: 3,7 (25 °C)
	pH: 6.8
	Method: OECD Test Guideline 117
	GLP: yes
	Remarks: Bioaccumulation is not expected.
Mobility in soil	: No data available
Other adverse effects	: Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging	: Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. TRANSPORT INFORMATION:

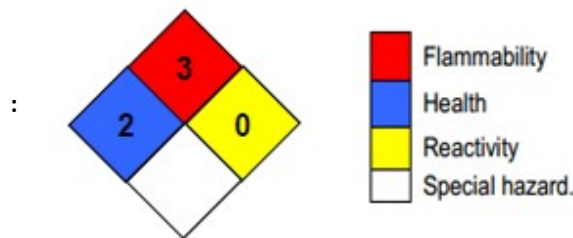
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 2357	Cyclohexylamine	8	II	No
IMDG	UN 2357	Cyclohexylamine	8	II	No
IATA	UN 2357	Cyclohexylamine	8	II	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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