

Safety Data Sheet

Product Name: 2024

Revision Date: June 4, 2015

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Section #1: Chemical Product and Company Identification

Product Name: 2024

Other mean of identification: None

Chemical use/Restrictions: For industrial, commercial, institutional use only. Not intended for household use.

Manufacturer / Distributor: Enerco Corporation

Address: 317 N. Bridge St., Grand Ledge, MI 48837

Telephone: (800) 292-5908

Fax: (517) 627-8037

For chemical emergency - spill, leak, fire, exposure or accident - call CHEMTREC - day or night - (800) 424-9300

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Section #2: Hazards Identification

Signal Word: **Danger**



Flame



Corrosion



Skull and
Crossbones

<u>Classification Number and Name</u>	<u>Appendix Reference</u>	<u>Hazard Statement</u>	<u>Hazard Category</u>
C.4.1 Acute Toxicity - Oral	A.1	Toxic if swallowed	3
C.4.2 Acute Toxicity - Dermal	A.1	Toxic in contact with skin	3
C.4.4 Skin Corrosion/Irritation	A.2	Causes severe skin burns and eye damage	1C
C.4.5 Eye Damage/Irritation	A.3	Causes serious eye damage	1
C.4.19 Flammable Liquids	B.6	Flammable liquid and vapor	3

Precautionary Statements

Prevention

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/ventilation/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dusts or mists.

Wash exposed body parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection/face protection

Wear protective gloves/eye protection/face protection.

Wear protective gloves/protective clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Call a poison center/doctor if you feel unwell.

Rinse mouth.

Take off immediately all contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

In case of fire: Use dry chemical, carbon dioxide, foam to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal

Dispose of contents/container to comply with all local, state, and federal regulations.

Other Hazards: No other hazards identified during the classification process.

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Unknown Acute Toxicity: No ingredients of unknown toxicity.

Section #3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV
<input checked="" type="checkbox"/> Cyclohexylamine	108-91-8	<10%	unknown	10 ppm

Indicates hazardous substances. Remainder of components comprise proprietary information. This document is prepared pursuant to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. In addition, other substances not "hazardous" per this OSHA standard may be listed.

Section #4: First Aid Measures

EMERGENCY OVERVIEW: At temperatures above 120°F, amine vapors will be present and may be irritating when inhaled.

Eye: Immediately flush with water for 15 minutes.
Consult physician.

Skin: Flush with water for 15 minutes.
If irritation occurs, consult physician.
Remove contaminated clothing.

Inhalation: Remove to fresh air if effects occur.

Ingestion: If swallowed, seek medical attention.
If conscious, give large quantities of water or milk.
Do not induce vomiting.

Potential Health Effects: See Section 11 for toxicological data

Effects of Acute Exposure: Eye: Burns, possible permanent damage.
Skin: Burns may occur.
Skin: May be absorbed through the skin.
Inhalation: Vapor, fumes may cause coughing and sneezing.
Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury, swallowing larger amounts than that may cause injury.

Effects of Chronic Exposure: Normal use of this product does not result in chronic exposure.

Medical Conditions Generally Aggravated by Exposure: None known.

Section #5: Fire-Fighting Measures

NFPA Hazard Codes - (Health / Flammability / Reactivity):

1 / 1 / 0

NFPA Code Legend

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

Extinguishing Media: Use media suitable for surrounding fire.
Water, for, dry chemical carbon dioxide foam.

Unusual Fire and Explosive Hazards: Gases containing nitrogen may be released from decomposition of product residue.

Special Fire Fighting Procedures: Fire fighters should wear full protective gear including self contained breathing apparatus.

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Section #6: Accidental Release Measures

Spill and Leak Procedure: Small spills: Wash area with water. Water must go to a treatment plant not to the environment.
Large spills: Dike or contain material and recover it for use as originally intended.
Wash area with water. Water must go to a treatment plant, not to the environment.
Provide good ventilation.
Eliminate sources of ignition.

Disposal: Dispose of in accordance with applicable environmental standards.

Section #7: Handling and Storage

Precautions to be Taken in Handling: Avoid contact with eyes, skin, and clothing
Avoid breathing vapor.
Do not ingest.

Precautions to be Taken in Storage: Store in cool, dry place.
Avoid temperatures above 120°F.
Normal shelf life 1 year.

Section #8: Exposure Controls / Personal Protection

Permissible Exposure Limits: OSHA PEL: Cyclohexylamine: 10 ppm

Ventilation: Use adequate ventilation to keep airborne levels below the exposure limits.

Eye Protection: Chemical safety goggles.

Skin Protection: Rubber gloves.

Respiratory Protection: None needed, if ventilation is adequate.

Other Protection Equipment: None

Section #9: Physical and Chemical Properties

Appearance: Clear To Light Amber Liquid

Flammable Limits: None

Odor: Fishy Odor

Vapor Pressure: Not tested

Odor Threshold: No Information Available.

Vapor Density: Not tested

pH (1% sol'n, unless noted): 11.5-12.0

Relative Density: No Information Available.

Melting Point (deg. F): No Information Available.

Solubility in Water: Complete

Boiling Point (deg. F): Greater than 212

Partition Coefficient: No Information Available.

Flash Point: Greater than 130°F

Auto-ignition (deg. F): No Information Available.

Evaporation Rate: Similar to water

Decomposition (deg. F): No Information Available.

Flammability (NFPA Rating): 1

Viscosity: No Information Available.

Section #10: Stability and Reactivity

Reactivity (NFPA Rating): 0

Chemical Stability: Stable

Hazardous Reactions: Will not occur.

Conditions to Avoid: Avoid temperatures above 120°F or below 40°F

Incompatibility: Strong acids.
Oxidizing agents.

Hazardous Decomposition Products: Nitrogen containing gases.

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Section #11: Toxicological Information

Prolonged and/or repeated exposure to vapors can cause headaches and respiratory system irritation.

Ingredients as Carcinogens: To the best of our knowledge, this product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be 'probable' or 'suspected' human carcinogens.

Section #12: Ecological Information

No data available on product

Section #13: Disposal Considerations

Best route is to use product for its originally intended purpose.
Dispose of in accordance with applicable environmental standards.

Section #14: Transport Information

DOT Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Cyclohexylamine) UN 1760

DOT Hazard Class: 8

DOT UN Number: UN 1760

DOT Label: CORROSIVE

DOT Packing Group: III

The shipping name listed above applies to a 55 gallon drum size (~500 lbs) of the product offered for ground transport. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment.

Section #15: Regulatory Information

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

RCRA Hazard Class: Product waste may exhibit characteristic of corrosiveness.

CERCLA RQ: Listed "Cyclohexylamine" RQ 1,000 Lbs

SARA Title III

Extremely Hazardous Substance: Listed: "Cyclohexylamine RQ 10,000 lbs.

Hazardous Substance: Hazard due to: Corrosiveness

Hazard Catagorization: Sudden Release of Pressure Immediate (Acute) Health
 Reactive Delayed (Chronic) Health
 Fire

Section 313 Chemicals: Not Listed.

STATE RIGHT-TO-KNOW

CHEMICAL NAME	CAS NUMBER	LIST
Cyclohexylamine	108-91-8	FL,MA,MN,NJ1,NY,PA1,PA3

FL=Florida Toxic Substance MA=Massachusetts Hazardous Substance. MN=Minnesota Hazardous Substance
NJ1=New Jersey RTK Hazardous Substance NY=New York Hazardous Substance PA1=Pennsylvania Hazardous
Substance (present at greater than or equal to 1.0%) PA3=P

Section #16: Other Information

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No other information listed.

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