

RLT 35

PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: RLT 35
Common Name: MIXTURE
SDS Number: 0982

SDS Number: Product Code: Revision Date:

BT0036 4/22/2015

Version:

2

Internal ID: Product Use: 220H

Supplier Details:

Water Treatment U.S. Water Services

12270 43rd St. NE

St. Michael, MN 55376

Contact:

Non-emergency #: 866-663-7632

Email: Web: SDS@uswaterservices.com

www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Acute toxicity, 4 Inhalation

Health, Acute toxicity, 4 Oral

Health, Skin corrosion/irritation, 1 A

Physical, Flammable Liquids, 3

Physical, Corrosive to Metals, 1

Health, Specific target organ toxicity - Single exposure, 3

GHS Label elements, including precautionary statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:







GHS Hazard Statements:

H332 - Harmful if inhaled

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H226 - Flammable liquid and vapor

H290 - May be corrosive to metals

H335 - May cause respiratory irritation

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GHS Precautionary Statements:

P102 - Keep out of reach of children.

P281 - Use personal protective equipment as required.

P302+352 - IF ON SKIN: Wash with soap and water.

P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P313 - Get medical advice/attention.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

| Cas# | % | Chemical Name |
|----------|----------|---------------------|
| 108-91-8 | 10-15% | Cyclohexanamine |
| 110-91-8 | 10-15% | Morpholine |
| 100-37-8 | 10-15% | Diethylaminoethanol |

4. FIRST AID MEASURES

Inhalation: Remove from contamination. If person has stopped breathing administer artificial respiration. If

symptoms persist, seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Remove contaminated garments and wash or destroy.

Seek medical attention if irritation develops. Consult a physician if irritation develops.

Eye Contact: Flush eyes with plenty of running water for 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention.

Most important symptoms & effects (acute & delayed): No data available Indication of need for immediate medical attention: No data available

Special treatment needs: No data available

FIRE FIGHTING MEASURES

Flash Point:

142°F

Flash Point Method:

Pensky Martens Closed Cup

Burning Rate:

No data available
No data available

Autoignition Temp: LEL:

Not applicable

UEL:

Not applicable

Extinguishing Media:



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Suitable: Use extinguishing media suitable for surrounding fire. Water fog, foam, carbon

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon

oxides, and other hazardous compounds

Unusual Fire or Explosion Hazards: Explosive air-vapor mixtures may form

Special protective equipment/precautions: Wear self-contained breathing apparatus

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

regulations

HANDLING AND STORAGE

Handling Precautions:

Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale

vapor or mist. Use with adequate ventilation. For industrial use only!

Storage Requirements:

Keep away from children. Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in

accordance with all local, state and federal guidelines.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Personal Protective Equipment: Provide local exhaust ventilation as needed to control misting. HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator

Pospiratory protection: If peeded use MCHA/NIOCH approved room

Respiratory protection: If needed use MSHA/NIOSH approved respirator for dusts and mists. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers,

and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

Exposure Limits:

USA OSHA (TWA)/PEL): Morpholine: 20ppm

Diethylaminoethanol: 10ppm

ACGIH (TWA/TLV):

Cyclohexylamine: 10ppm

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Morpholine: 20ppm

Diethylaminoethanol: 10ppm

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Colorless to yellow

Physical State:

Liquid

Odor Threshold:

No data available

Spec Grav./Density: 8.26 Lb/Gal

Viscosity:

No data available

Boiling Point: Vapor Pressure: No data available No data available

pH:

13-13.5

Evap. Rate: **Decomp Temp:** No data available No data available

Odor:

Mild

Solubility:

Complete

Freezing/Melting Pt.: 19°F Flash Point:

Nonflammable

Vapor Density:

Thermal decomposition may produce carbon oxides and other toxic compounds.

No data available Auto-Ignition Temp: No data available

UFL/LFL:

No data available

10 STABILITY AND REACTIVITY

Stability:

Product is stable under normal storage and use conditions.

Conditions to Avoid:

Avoid temperature extremes. Protect from freezing

Materials to Avoid:

Strong acids, strong bases, strong oxidizing agents.

Hazardous

Decomposition:

Will not occur.

Hazardous Polymerization:

TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin Corrosion/Irritation: No data avaible Serious eye damage/irritation: No data available Respiratory or skin sensitization: No data available

Specific target organ toxicity (single exposure): No data available Specific target organ toxicity (repeated exposure): No data available

Aspiration hazard: No data available

Carcinogenicity: No carcinogenic effects are known for the components of this product Germ Cell Mutagenicity: No mutagenic effects are known for the components of this product

Teratogenicity: No teratogenic effects are known for the components of this product

ECOLOGICAL INFORMATION

Aquatic Toxicity

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| SPECIES | LC ₅₀ 24 Hr | LC ₂₀ 48 Hr | LC ₈₀ 72 Hr | LC ₅₀ 96 Hr | NOEC | LOEC |
|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|-------------------|
| Ceríodaphnía dubia | 107 mg/L | 65 mg/L | | | 50 mg/L 48 Hr | 100 mg/L 48 Hr |
| Fathead Minnow | 892 mg/L | 495 mg/L | 431 mg/L | 304 mg/L | 175 mg/L 96 Hr | 350 mg/L 96 Hr |

Elimination (persistency & degradability): No data available

Bioaccumulative potential: No data available



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Mobility in soil: No data available

Other adverse effects: No data available

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DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

TRANSPORT INFORMATION

UN1760, Corrosive liquids, n.o.s., 8, PGII, (Morpholine, Cyclohexylamine)

DOT Transportation data (49 CFR 172.101)

REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Cyclohexanamine (108-91-8) [10-15%] EHS302, HAP, MASS, NJHS, OSHAWAC, PA, TSCA, TXAIR

Morpholine (110-91-8) [10-15%] MASS, OSHAWAC, PA, TSCA, TXAIR

Diethylaminoethanol (100-37-8) [10-15%] MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

EHS302 = Extremely Hazardous Substance

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

NJHS = NJ Right-to-Know Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

CERCLA List: This product does not contain any CERCLA listed hazardous substances.

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

SARA 312: Acute, Chronic, Fite



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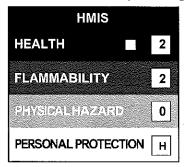
RCRA: Corrosive, D002

16 OTHER INFORMATION

HMIS III:

Health = 2, Fire = 2, Physical Hazard = 0

HMIS PPE: H - Splash Goggles, Gloves, Apron, Vapor Respirator



Author: U.S. Water Services

Revision Notes: Updated to GHS format

Disclaimer:

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