

RLT 35**1****PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: RLT 35
Common Name: MIXTURE
SDS Number: 0982
Product Code: BT0036
Revision Date: 9/18/2018
Version: 3
Product Use: Return Line Treatment
Supplier Details: U.S. Water Services
12270 43rd St. NE
St. Michael, MN 55376
Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
Web: 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, Corrosive to Metals, 1
Health, Specific target organ toxicity - Single exposure, 3
Health, Serious Eye Damage/Eye Irritation, 1
Health, Acute toxicity, 3 Dermal
Health, Reproductive toxicity, 2

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
H290 - May be corrosive to metals
H335 - May cause respiratory irritation
H318 - Causes serious eye damage
H311 - Toxic in contact with skin
H361 - Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of

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exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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)

3**COMPOSITION/INFORMATION OF INGREDIENTS**

Chemical Ingredients		
CAS#	%	Chemical Name
108-91-8	10-15%	Cyclohexylamine
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

5**FIRE FIGHTING MEASURES**

Flash Point: >60°C / >140°F

Flash Point Method: Pensky Martens Closed Cup

Burning Rate: No data available

Autoignition Temp: No data available

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

6**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.

7**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.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator

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
Morpholine: 20ppm
Diethylaminoethanol: 10ppm

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless to yellow	Odor:	Mild
Physical State:	Liquid	Solubility:	Complete
Odor Threshold:	No data available	Freezing/Melting Pt.:	-7°C / 19°F
Spec Grav./Density:	0.99 / 8.26 lb/gal	Flash Point:	>60°C / >140°F
Viscosity:	No data available	Vapor Density:	No data available
Boiling Point:	No data available	Auto-Ignition Temp:	No data available
Vapor Pressure:	No data available	UFL/LFL:	No data available
pH:	13-13.5		
Evap. Rate:	No data available		
Decomp Temp:	No data available		

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STABILITY AND REACTIVITY

Chemical 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:	Thermal decomposition may produce carbon oxides and other toxic compounds.
Hazardous Polymerization:	Will not occur.

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TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin Corrosion/Irritation: No data available
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

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ECOLOGICAL INFORMATION

Aquatic Toxicity

SPECIES	LC ₅₀ 24 Hr	LC ₅₀ 48 Hr	LC ₅₀ 72 Hr	LC ₅₀ 96 Hr	NOEC	LOEC
<i>Ceriodaphnia dubia</i>	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 (persistence & degradability): No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

RLT 35**13 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.

14 TRANSPORT INFORMATION

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

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT Transportation data (49 CFR 172.101)

See section 15 for information on Reportable Quantity chemicals (RQ)

15 REGULATORY INFORMATION**Component (CAS#) [%] - CODES**

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

Morpholine (110-91-8) [10-15%] GADSL, 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

GADSL = Global Automotive Declarable Substance List (GADSL)

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

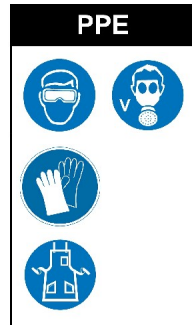
RCRA: Corrosive, D002

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OTHER INFORMATION

HMIS III: Health = 2, Fire = 2, Physical Hazard = 0
HMIS PPE: H - Splash Goggles, Gloves, Apron, Vapor Respirator

HMIS	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H



Author: U.S. Water Services

Revision Notes: Updated to GHS format

Disclaimer:

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Revision Date: 9/18/2018