

SAFETY DATA SHEET



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **SBT-RC**

Validation Date: 6/24/15

Company Identification:

Contact Information:

US Headquarters
CH₂O, Inc.
8820 Old Highway 99 SE
Olympia, WA 98501 USA

1-800-424-9300 (For Emergencies – CHEMTREC)
1-800-562-6184 (For product information)
1-360-352-4813 (Fax)
info@ch2o.com (email)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Dermal (Category 3), H311
Acute toxicity, Inhalation (Category 4), H332
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Reproductive toxicity (Category 2), H361

PICTOGRAM/SYMBOL:



SIGNAL WORD: DANGER

HAZARD STATEMENTS - LABEL ELEMENTS

Health Hazards Statement(s)

| | |
|------|---|
| H301 | Toxic if swallowed |
| H311 | Toxic in contact with skin |
| H332 | Harmful if inhaled |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H361 | Suspected of damaging fertility or the unborn child |

Physical Hazards Statement(s)

None

Precautionary Statement(s) - Prevention

| | |
|------|--|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust, fume, gas, mist, vapors, spray |
| P264 | Wash skin and contaminated clothing thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product |
| P280 | Wear protective gloves, protective clothing, eye protection, face protection |

Precautionary Statement(s) - Response

| | |
|----------------|--|
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P363 | Wash contaminated clothing before reuse. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician
P308+P313 IF exposed or concerned: Get medical advice/attention

Precautionary Statement(s) - Storage

P405 Store locked up.

Precautionary Statement(s) - Disposal

P501 Dispose of contents/container in accordance with applicable local, regional, national, and/or international regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT(S) | CAS Number | Weight % |
|---------------------|------------|----------|
| Cyclohexylamine | 108-91-8 | 15-20 |
| Morpholine | 110-91-8 | 15-20 |
| Diethylaminoethanol | 100-37-8 | 15-20 |

>40% of mixture consists of ingredients of unknown toxicity. Exact percentages are withheld as trade secrets.

4. FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After 15 minutes, check for and remove any contact lenses. Continue to rinse for at least 15 minutes.

SKIN CONTACT: Get medical attention immediately. Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Destroy contaminated shoes.

INHALATION: Get medical aid immediately. Remove from exposure and move to fresh air immediately and keep in position comfortable for breathing. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

INGESTION: Get medical attention immediately. Do NOT induce vomiting. If victim is conscious and alert, wash out mouth with water then give water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear.

NOTES TO PHYSICIAN: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

NOTE: Solid product. Product will melt and combustion may occur when exposed to fire.

General information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Do NOT use straight streams of water.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: Remove sources of ignition. Ventilate area. Use appropriate personal protective equipment as indicated in Section 8 of the SDS when risk assessment indicates this is necessary. Use non-sparking tools and equipment. Sweep or shovel spilled materials into suitable containers. Dispose of in accordance with all local, state and federal requirements. Do not allow product or residues to enter waterway or any source of drinking water.

7. HANDLING AND STORAGE

HANDLING: Use appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container. Store and use away from heat, sparks, open flame or any other ignition source. Do not reuse container.

STORAGE: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from oxidizing materials and acids. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

| CHEMICAL NAME | ACGIH | NIOSH | OSHA – Final PELs |
|---------------------|--|--------------------------------------|--------------------------------------|
| Cyclohexylamine | 10ppm TWA | 10ppm TWA 40mg/m ³ TWA | - |
| Morpholine | 20 ppm TWA; Skin – potential significant contribution to overall exposure by the cutaneous route | 20 ppm TWA; 70 mg/m ³ | 20 ppm TWA; 70 mg/m ³ TWA |
| Diethylaminoethanol | 2 ppm TWA; skin | 10 ppm TWA 100 ppm IDLH | 10 ppm |

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Wear chemical splash goggles that meet the requirements of 29 CFR 1910.133 on European Standard EN 166.

Skin: Wear appropriate protective gloves to prevent skin exposure (29 CFR 1910.138 or EN 374).

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------------|-------------------|
| FORM: | Solid |
| ODOR: | Ammoniacal |
| ODOR THRESHOLD: | No data available |
| COLOR: | White |
| pH: | ~11 @ 4% |
| FREEZING POINT: | No data available |
| BOILING POINT: | No data available |
| FLASH POINT: | No data available |
| EVAPORATION RATE: | No data available |
| FLAMMABILITY: | No data available |
| FLAMMABILITY/EXPLOSIVE LIMIT: | No data available |
| AUTOIGNITION TEMPERATURE: | No data available |
| VAPOR PRESSURE: | No data available |
| VAPOR DENSITY: | No data available |

| | |
|---|-----------------------------|
| DENSITY: | No data available |
| SOLUBILITY IN WATER: | Complete over time in water |
| PARTITION COEFFICIENT N-OCTANOL/WATER: | No data available |
| AUTOIGNITION TEMPERATURE: | No data available |
| DECOMPOSTION TEMPERATURE: | No data available |

10. STABILITY AND REACTIVITY

STABILITY: The product is stable.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: Reactive or incompatible with the following materials: oxidizing materials, nitrites, acids, ketones, phenol, glycols, halogenated agents, hypochlorite.

HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use, hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, amines.

11. TOXICOLOGICAL INFORMATION

TOXICITY: No data available for product.

CARCINOGENICITY

| Product/Ingredient Name | ACGIH | IARC | NTP |
|-------------------------|-------|------|-----|
| Morpholine | - | 3 | - |

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL INFORMATION: No Data Available For Product.

13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. U.S. EPA guidelines for the classifications are listed in 40CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORTATION INFORMATION

U.S. DOT Bill of Lading Description: UN 3263, Corrosive Solid, basic, organic, n.o.s. (Cyclohexylamine, Morpholine, 2 - Diethylaminoethanol), 8, II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL).

U.S. REGULATIONS

California Proposition 65: This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm (none).

STATE RIGHT TO KNOW (RTK)

| INGREDIENT(S) | CAS# | MA | NJ | PA | MN | CA |
|---------------------|----------|----|----|----|----|----|
| Cyclohexylamine | 108-91-8 | X | X | X | X | X |
| Morpholine | 110-91-8 | X | X | X | X | - |
| Diethylaminoethanol | 100-37-8 | X | X | X | X | - |

CERCLA/SARA 302/304

| INGREDIENT(S) | CAS# | Weight % | CERCLA/SARA RQ (lbs) | Section 302 TPQ (lbs) |
|-----------------|----------|----------|----------------------|-----------------------|
| Cyclohexylamine | 108-91-8 | 15-20 | - | 10,000 |

SARA 311/312 Hazard Categories

| | |
|------------------------------------|----------|
| Immediate: | X |
| Delayed: | X |
| Fire: | - |
| Reactivity: | - |
| Sudden Release of Pressure: | - |

Clean Air Act:

Not regulated.

Clean Water Act:

Not regulated.

Other Information:

All active components conform to FDA title 21, Section 173.310 Boiler Water Additives. All inert component conform to FDA Section 21, CFR 184.1733 GRAS.

16. OTHER INFORMATION**Hazardous Material**

Information System (U.S.A.) Health: 3 Flammability: 1 Reactivity: 0

National Fire Protection

Association (U.S.A.) Health: 3 Flammability: 1 Reactivity: 0

HMIS and NFPA use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of 0 means that the substance possesses essentially no hazard; a rating of 4 indicates high hazard.

Date of Creation: 02/02

Issue Number: 5.5

Date of Revision: 6/24/15

Prepared By: Compliance Group

The information contained in this Safety Data Sheet is intended to comply with the requirements of 29CFR 1910.1200. This information is believed to be accurate and based on data available to the manufacturer at this time. It is intended to be used as a guide to the safe handling and use by properly trained individuals. It is the end users responsibility to determine the suitability of the information for their particular purposes. This information is provided without warranty.