

Product BT-4630
 Revision Date 06/12/2015
 Revision 1



Safety Data Sheet

SECTION 1: IDENTIFICATION

| | |
|----------------------------|--|
| Product Name | BT-4630 |
| Identifier Uses | Condensate Treatment |
| Supplier | Clear Water Technologies, LLC 13560 Colombard Court Fontana, California 92337 Tel: 844.429.8324 |
| Contact Person | info@cheminc.com |
| Emergency Telephone | 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500 |

SECTION 2: HAZARDS IDENTIFICATION

| | |
|--------------------------------------|---|
| Appearance | Clear, colorless to yellow liquid. |
| Color | Clear, colorless to yellow liquid. |
| Odor | Ammonia-like. |
| Pictogram(s) | |
| Signal Word | Danger |
| Hazard Statements | H303 May be harmful if swallowed H314 Causes severe skin burns and eye damage H361 Suspected of damaging fertility or the unborn child. |
| Precautionary Statements | P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/ protective clothing/eye protection/face protection. 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 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 |
| Contains | 2-diethylaminoethanol N,N-diethylethanolamine morpholine cyclohexylamine |
| GHS Classification | |
| Physical and Chemical Hazards | Not classified |
| Human Health | Acute Tox 5 - H303, Acute Tox 5 - H313, Skin Corr. 1B - H314, Repr. 2 - H361 |
| Environment | Not classified |
| OSHA Regulatory Status | This product is Hazardous under the OSHA Hazard communication Standard. |
| Inhalation | Inhalation of vapors or fumes may cause minor respiratory irritation. |
| Ingestion | Harmful if swallowed. |
| Skin contact | Exposure to liquid product causes severe irritation to skin, and burns. Symptoms of exposure may include redness, itching, swelling or pain. |
| Eye contact | Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain. |

| | |
|---------------------------|--|
| Routes of Exposure | Effects of contact may be delayed. Avoid contact. No Information available. |
|---------------------------|--|

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|-----------------------------|---|
| Composition Comments | Confidential business information has been removed without affecting the overall safety information on the safety data sheet. |
|-----------------------------|---|

SECTION 4: FIRST AID MEASURES

Description of first aid measures

| | |
|----------------------------|---|
| General Information | General first aid, rest, warmth and fresh air. |
| Inhalation | If this product is inhaled, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist. |
| Ingestion | If this product is ingested, seek medical attention immediately. Do NOT give the exposed person anything to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. |
| Skin contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing. |
| Eye contact | Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. Continue to rinse for at least 15 minutes. |

Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|---|
| General Information | The severity of the symptoms described will vary dependent of the concentration and the length of exposure. |
| Inhalation | Inhalation of vapors or fumes may cause minor respiratory irritation. |
| Ingestion | Harmful if swallowed. |
| Skin contact | Exposure to liquid product causes severe irritation to skin, and burns. Symptoms of exposure may include redness, itching, swelling or pain. |
| Eye contact | Exposure to liquid product may cause severe irritation to eyes, and possibly burns or eye damage. Symptoms of exposure may include redness, itching, swelling, tearing or pain. |
| Routes of Exposure | Effects of contact may be delayed. Avoid contact. No Information available. |

Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------|---|
| Notes to the Physician | There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. |
|-------------------------------|---|

SECTION 5: FIREFIGHTING MEASURES

| | |
|---|--|
| Auto Ignition Temperature (°C) | No Information available. |
| Flammability Limit - Lower (%) | No Information available. |
| Flammability Limit - Upper (%) | No Information available. |
| Flash point | > 141.0 °F |
| Extinguishing Media | Water spray may be ineffective. Use alcohol foam, dry chemical, carbon dioxide, sand or limestone to extinguish fire. |
| Hazardous combustion products | Combustion may lead to the release of carbon monoxide, oxides of nitrogen and ammonia. |
| Unusual Fire & Explosion Hazards | Irritating vapors may be emitted during a fire. |
| Special Fire Fighting Procedures | Use water to cool containers exposed to a fire. |
| Protective equipment for fire-fighters | Fire fighters should wear full protective equipment, including butyl rubber boots, gloves, body suit and self-contained breathing apparatus. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Use proper personal protection (refer to Section 8). Shut off or remove all sources of ignition. Use caution as spills of this product are very slippery. |
| Environmental Precautions | Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course. |

Spill Clean Up Methods

Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Dike spill area and soak up material with dry soil, sand or other absorbent. Place into chemical waste container for disposal according to local, state or federal regulations at an approved chemical waste reprocessing facility. Flush spill area with detergent and water. Do NOT flush into sewer or storm drain.

SECTION 7: HANDLING AND STORAGE**Handling**

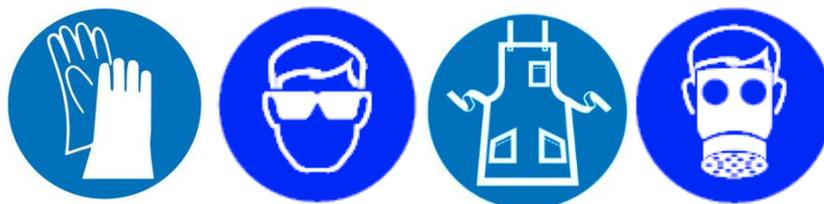
Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

**Usage Description
Storage Precautions**

Use only according to directions.
The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite. The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Keep away from strong oxidizing agents, acids, copper, aluminum and zinc.

Specific End Use(s)

The identified uses are in section 1 of this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Protective Equipment**

| Component | STD | TWA (8 Hrs) | | STEL (15mins) | | Notes |
|---|------|-------------|---------|---------------|--|-------|
| 2-diethylaminoethanol N,N- diethylethanolamine | OSHA | 10ppm | 50mg/m3 | | | |
| morpholine | OSHA | 20ppm | 70mg/m3 | | | |

Ingredient Comments

OSHA

**Process Conditions
Engineering Measures**

Keep container tightly sealed when not in use. Provide eyewash, quick drench.
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

Use a NIOSH approved organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

**Hand Protection
Eye Protection**

Use neoprene, butyl or nitrile rubber gloves to minimize skin contact.
To avoid contact with eyes, use chemical splash goggles and a face shield. Eye wash station should be available in the work area.

Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties**

| | |
|------------------------------|------------------------------------|
| Appearance | Clear, colorless to yellow liquid. |
| Color | Clear, colorless to yellow liquid. |
| Odor | Ammonia-like. |
| Odor Threshold -Lower | No Information available. |

| | |
|--|------------------------------|
| Odor Threshold - Upper | No Information available. |
| pH-Value, Conc. Solution | 12.4 |
| Melting point | 25.0 °F |
| Initial boiling point and boiling range | 210.0 °F |
| Flashpoint | > 141.0 °F |
| Evaporation rate | No Information available. |
| Flammability State | No Information available. |
| Flammability Limit-Lower (%) | No Information available. |
| Flammability Limit-Upper (%) | No Information available. |
| Vapor pressure | 7.0 mm Hg 0.0 |
| Vapor Density (air=1) | No Information available. |
| Relative density | 0.99 @ 68.0 °F |
| Bulk Density | No Information available. |
| Solubility | Completely soluble in water. |
| Decomposition temperature | No Information available. |
| Partition coefficient; n-octanol/water | No Information available. |
| Auto Ignition Temperature (°C) | No Information available. |
| Viscosity | No Information available. |
| Explosive Properties | No information available. |
| Oxidizing Properties | No Information available. |
| Molecular Weight | No Information available. |
| Volatile Organic Compound | No Information available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Reactions may occur with strong oxidizing agents, strong acids, copper, aluminum and zinc. |
| Stability | This product is stable at ambient temperatures and atmospheric pressures. |
| Hazardous Polymerization | Hazardous polymerization is not expected to occur under normal temperatures and pressures. |
| Hazardous Decomposition Products | Carbon monoxide, oxides of nitrogen and ammonia. |
| Conditions to Avoid | Avoid exposing to contact with Strong oxidizing agents, strong acids, copper, aluminum, and zinc. |
| Materials to Avoid | Keep away from Strong oxidizing agents, strong acids, copper, aluminum and zinc. |

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information

| | |
|-------------------------------------|---------------------|
| Acute Toxicity (Oral LD50) | >714.00mg/kg Rat |
| Acute Toxicity (Dermal LD50) | >302.00mg/kg Rabbit |

| | |
|--|--|
| Acute Toxicity (Inhalation LC50) | No Information available. |
| Skin Corrosion/Irritation | No Information available. |
| Respiratory Sensitization | No Information available. |
| Skin Sensitization | No Information available. |
| Reproductive Toxicity: | No Information available. |
| Germ Cell Mutagenicity: | |
| Genotoxicity - In Vitro | |
| Genotoxicity - In Vivo | |
| Carcinogenicity: | |
| Carcinogenicity | No Information available. |
| NTP - Carcinogenicity | The product and its components are not listed. |
| OSHA - Carcinogenicity | The product and its components are not listed. |
| IARC Carcinogenicity | morpholine: 3 IARC Group 3 Not classifiable as to its carcinogenicity to humans. |
| Specific Target Organ Toxicity - Single Exposure: | |
| STOT - Single Exposure | No Information available. |
| Specific Target Organ Toxicity - Repeated Exposure: | |
| STOT - Repeated Exposure | No Information available. |

| Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------------|----------------|------------------|---------------------------------|
| morpholine | 1050mg/kg Rat | 1210mg/kg Rabbit | >22.2mg/l (vapours) Rat 1 Hours |
| cyclohexylamine | 432mg/kg-I Rat | 275mg/kg-I Rat | >700mg/m-3 Rat 4Hours |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|---|--|
| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| Acute Toxicity - Fish | LC50 96 Hours >2130.00ppm Onchorhynchus mykiss (Rainbow Trout) |
| Acute Toxicity - Aquatic Invertebrates | LC50 48 Hours >235.00ppm Daphnia magna |
| Acute Toxicity - Aquatic Plants | EC50 72 Hours > 1990.00ppm |
| Degradability | No information available. |
| Bioaccumulative Potential | |
| Mobility | Completely soluble in water. |
| Results of PBT and vPvB Assessment | The product does not contain any PBT or vPvB substances. |
| Other Adverse Effects | None known. |

| Name | Acute Toxicity (Fish) | Acute Toxicity (Aquatic Invertebrates) | Acute Toxicity (Aquatic Plants) |
|-----------------|--------------------------|--|--|
| morpholine | LC50 96 Hours 400.00mg/l | | |
| cyclohexylamine | LC50 =19.00mg/l | EC50 48 Hours =36.30mg/l Daphnia magna | EC50 72 Hours =29.30mg/l Selenastrum Capricornutum |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|-------------------------|--|
| Waste Management | When handling waste, consideration should be made to the safety precautions applying to handling of the product. |
| Disposal Methods | Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Do NOT reuse empty containers. Dispose in accordance with all applicable federal, state and local laws and regulations. |

