# SAFETY DATA SHEET

## 1. Identification

| | |
|---|---|
| **Product identifier** | **CSB-1** |
| **Other means of identification** | Not available. |
| **Recommended use** | Not available. |
| **Recommended restrictions** | None known. |

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

| | | |
|---|---|---|
| **Company name** | CETCO, an MTI Company | |
| **Address** | 2870 Forbs Avenue<br>Hoffman Estates, IL 60192<br>United States | |
| **Telephone** | General Information | 800 527-9948 |
| **Website** | http://www.cetco.com/LT/ | |
| **E-mail** | safetydata@amcol.com | |
| **Emergency phone number** | . | |
| **Americas** | 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 | |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Not classified. | |
| **Health hazards** | Acute toxicity, oral | Category 2 |
| | Acute toxicity, dermal | Category 3 |
| | Acute toxicity, inhalation | Category 3 |
| | Skin corrosion/irritation | Category 1A |
| | Serious eye damage/eye irritation | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| **Environmental hazards** | Hazardous to the aquatic environment, acute hazard | Category 1 |
| | Hazardous to the aquatic environment, long-term hazard | Category 3 |
| **OSHA defined hazards** | Not classified. | |

**Label elements**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statement** | Fatal if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. |
| **Prevention** | Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. |
| **Response** | Collect spillage. If swallowed: Immediately call a poison center/doctor/. If swallowed: Rinse mouth. Do NOT induce vomiting. 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/. Specific treatment (see on this label). Take off immediately all contaminated clothing and wash it before reuse. |
| **Storage** | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| **Hazard(s) not otherwise classified (HNOC)** | None known. |

**Supplemental information** 45.24% of the mixture consists of component(s) of unknown acute oral toxicity. 0.04% of the mixture consists of component(s) of unknown acute dermal toxicity. 45.28% of the mixture consists of component(s) of unknown acute inhalation toxicity. 0.04% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 0.04% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| ACRYLIC ACID | | 79-10-7 | 50.96 |
| SODIUM HYDROXIDE | | 1310-73-2 | 45.24 |
| Other components below reportable levels | | | 3.8 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

**Skin contact** Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**Eye contact** Call a physician or poison control center immediately.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting.

**Most important symptoms/effects, acute and delayed** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

**General information** Take off immediately all contaminated clothing. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions** Move containers from fire area if you can do so without risk.

**Specific methods** Move containers from fire area if you can do so without risk.

**General fire hazards** No unusual fire or explosion hazards noted.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch or walk through spilled material. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up** Collect spillage. Dike far ahead of spill for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent product from entering drains.

Never return spills to original containers for re-use.

**Environmental precautions** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Do not taste or swallow. Avoid breathing vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| SODIUM HYDROXIDE (CAS 1310-73-2) | PEL | 2 mg/m3 |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| ACRYLIC ACID (CAS 79-10-7) | TWA | 2 ppm |
| SODIUM HYDROXIDE (CAS 1310-73-2) | Ceiling | 2 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| ACRYLIC ACID (CAS 79-10-7) | TWA | 6 mg/m3<br>2 ppm |
| SODIUM HYDROXIDE (CAS 1310-73-2) | Ceiling | 2 mg/m3 |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines**

**US - California OELs: Skin designation**

ACRYLIC ACID (CAS 79-10-7) Can be absorbed through the skin.

**US - Tennesse OELs: Skin designation**

ACRYLIC ACID (CAS 79-10-7) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

ACRYLIC ACID (CAS 79-10-7) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

ACRYLIC ACID (CAS 79-10-7) Can be absorbed through the skin.

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Liquid.

**Physical state** Liquid.

**Form** Slurry.

**Color** Light grey.

**Odor** Vinegar-like.

**Odor threshold** Not available.

**pH** 5.6 - 5.8

**Melting point/freezing point** 32 °F (0 °C) estimated

**Initial boiling point and boiling range** 212 °F (100 °C) estimated

**Flash point** Not available.

| | |
|---|---|
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Soluble |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | 3000 cP |
| **Other information** | |
| **Density** | 1.27 g/ml estimated |
| **Specific gravity** | 1.35 estimated |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | risk of violent reaction |
| **Possibility of hazardous reactions** | Hazardous polymerization can occur. |
| **Conditions to avoid** | Contact with incompatible materials. Avoid temperatures above 77°F (25°C). Polymerization can occur. Avoid frost. |
| **Incompatible materials** | Strong oxidizing agents. |
| **Hazardous decomposition products** | Not available. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Ingestion** | Fatal if swallowed. Causes digestive tract burns. |
| **Inhalation** | Toxic by inhalation. |
| **Skin contact** | Toxic in contact with skin. Causes severe skin burns. |
| **Eye contact** | Causes serious eye damage. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |

**Information on toxicological effects**

**Acute toxicity** Fatal if swallowed. Toxic by inhalation. Toxic in contact with skin. May cause respiratory irritation.

| Components | Species | Test Results |
|---|---|---|
| ACRYLIC ACID (CAS 79-10-7) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Rat | 10600 mg/l/4h |
| | | 1200 mg/l, 4 Hours |
| *Oral* | | |
| LD50 | Mouse | 2400 mg/kg |
| | Rat | 33.5 mg/kg |
| *Other* | | |
| LD50 | Mouse | 1590 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| | | 0.016 ml/kg |
| | Rabbit | 290 mg/kg |
| | Rat | 24 mg/kg |
| SODIUM HYDROXIDE (CAS 1310-73-2) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 1350 mg/kg |
| *Other* | | |
| LD50 | Mouse | 40 mg/kg |

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

ACRYLIC ACID (CAS 79-10-7) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Respiratory tract irritation.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Components | | Species | Test Results |
|---|---|---|---|
| ACRYLIC ACID (CAS 79-10-7) | | | |
| Crustacea | EC50 | Daphnia | 47 mg/L, 48 Hours |
| Fish | LC50 | Fish | 222 mg/L, 96 Hours |
| SODIUM HYDROXIDE (CAS 1310-73-2) | | | |
| Fish | LC50 | Fish | 45.4 mg/L, 96 Hours |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) | 34.59 - 47.13 mg/l, 48 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

ACRYLIC ACID 0.35

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**US RCRA Hazardous Waste U List: Reference**

ACRYLIC ACID (CAS 79-10-7) U008

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

**DOT**

| | |
|---|---|
| **UN number** | UN3264 |
| **UN proper shipping name** | Corrosive liquid, acidic, inorganic, n.o.s. (ACRYLIC ACID RQ = 9812 lbs, SODIUM HYDROXIDE RQ = 2210 lbs), MARINE POLLUTANT |
| **Transport hazard class(es)** | |
| **Class** | 8 |
| **Subsidiary risk** | - |
| **Label(s)** | 8 |
| **Packing group** | III |
| **Environmental hazards** | |
| **Marine pollutant** | Yes |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |
| **Special provisions** | IB3, T7, TP1, TP28 |
| **Packaging exceptions** | 154 |
| **Packaging non bulk** | 203 |
| **Packaging bulk** | 241 |

**IATA**

Not regulated as dangerous goods.

**IMDG**

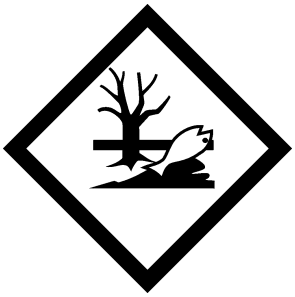
| | |
|---|---|
| **UN number** | UN3264 |
| **UN proper shipping name** | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ACRYLIC ACID, SODIUM HYDROXIDE), MARINE POLLUTANT |
| **Transport hazard class(es)** | |
| **Class** | 8 |
| **Subsidiary risk** | - |
| **Packing group** | III |
| **Environmental hazards** | |
| **Marine pollutant** | Yes |
| **EmS** | F-A, S-B |
| **Special precautions for user** | Read safety instructions, SDS and emergency procedures before handling. |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

**DOT**


**IMDG**

**Marine pollutant**



## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| ACRYLIC ACID (CAS 79-10-7) | LISTED |
| SODIUM HYDROXIDE (CAS 1310-73-2) | LISTED |

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** Yes

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| ACRYLIC ACID | 79-10-7 | 50.96 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

ACRYLIC ACID (CAS 79-10-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

ACRYLIC ACID (CAS 79-10-7)
SODIUM HYDROXIDE (CAS 1310-73-2)

**US. Massachusetts RTK - Substance List**

ACRYLIC ACID (CAS 79-10-7)
SODIUM HYDROXIDE (CAS 1310-73-2)

**US. New Jersey Worker and Community Right-to-Know Act**

ACRYLIC ACID (CAS 79-10-7) 500 lbs

**US. Rhode Island RTK**

ACRYLIC ACID (CAS 79-10-7)
SODIUM HYDROXIDE (CAS 1310-73-2)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 22-September-2014

**Revision date** 22-September-2014

**Version #** 02

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**
Health: 2
Flammability: 1
Physical hazard: 0

**NFPA ratings**
Health: 2
Flammability: 1
Instability: 0

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision Information**
Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties