

Safety Data Sheet

Product Name: CS20: Blended Caustic HD

Revision Date: June 4, 2015

Page 1 of 5

Section #1: Chemical Product and Company Identification

Product Name: CS20: Blended Caustic HD

Other mean of identification: None

Chemical use/Restrictions: For industrial, commercial, institutional use only. Not intended for household use.

Manufacturer / Distributor: Enerco Corporation

Address: 317 N. Bridge St., Grand Ledge, MI 48837

Telephone: (800) 292-5908

Fax: (517) 627-8037

For chemical emergency - spill, leak, fire, exposure or accident - call CHEMTREC - day or night - (800) 424-9300

Safety Data Sheet

Product Name: CS20: Blended Caustic HD

Revision Date: June 4, 2015

Continued from previous page...

Page 2 of 5

Section #2: Hazards Identification

Signal Word: **Danger**



Exclamation
Mark



Corrosion

<u>Classification Number and Name</u>	<u>Appendix Reference</u>	<u>Hazard Statement</u>	<u>Hazard Category</u>
C.4.1 Acute Toxicity - Oral	A.1	Harmful if swallowed	4
C.4.4 Skin Corrosion/Irritation	A.2	Causes severe skin burns and eye damage	1B
C.4.5 Eye Damage/Irritation	A.3	Causes serious eye damage	1
C.4.29 Corrosive to Metals	B.16	May be corrosive to metals	1

Precautionary Statements

Prevention

Keep only in original container.

Do not breathe dusts or mists.

Wash exposed body parts thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear eye protection/face protection

Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.

Rinse mouth.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage

Store locked up.

Store in a corrosive resistant container with a resistant inner liner.

Disposal

Dispose of contents/container to comply with all local, state, and federal regulations.

Other Hazards: No other hazards identified during the classification process.

Unknown Acute Toxicity: No ingredients of unknown toxicity.

Section #3: Composition/Information on Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
<input checked="" type="checkbox"/> Sodium Hydroxide	1310-73-2	40-50	2 mg/m ³	unknown

☒ Indicates hazardous substances. Remainder of components comprise proprietary information. This document is prepared pursuant to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. In addition, other substances not "hazardous" per this OSHA standard may be listed.

Safety Data Sheet

Product Name: CS20: Blended Caustic HD

Revision Date: June 4, 2015

Continued from previous page...

Page 3 of 5

Section #4: First Aid Measures

EMERGENCY OVERVIEW: Highly corrosive to eyes and skin.

Eye: Immediately flush with water for 15 minutes - be sure eyelids are held open during flushing. Consult physician, get immediate medical attention.

Skin: Flush with water for 15 minutes. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. If irritation occurs, consult physician. Remove contaminated clothing and thoroughly clean before reuse or discard.

Inhalation: Remove to fresh air. Seek medical attention if breathing is difficult.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. If conscious, drink large amounts of water or acidic beverages, like orange or tomato juice.

Potential Health Effects: See Section 11 for toxicological data

Effects of Acute Exposure:
Eye: Severe burns with possible permanent damage and loss of vision.
Skin: Severe burns may occur. Prolonged contact may destroy tissue.
Inhalation: Mists may cause damage to upper respiratory tract and to the lung tissue depending on extent of exposure.
Ingestion: Corrosive to gastrointestinal tract, may cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made.

Effects of Chronic Exposure: None Known. Normal use of this product does not result in chronic exposure. Avoid repetitive acute exposures.

Medical Conditions Generally Aggravated by Exposure: None known.

Section #5: Fire-Fighting Measures

NFPA Hazard Codes - (Health / Flammability / Reactivity):

3 / 0 / 1

NFPA Code Legend

4 - Severe Hazard
3 - Serious Hazard
2 - Moderate Hazard
1 - Slight Hazard
0 - Minimal Hazard

Extinguishing Media: Use media suitable for surrounding fire.

Unusual Fire and Explosive Hazards: Contact with some metals, particularly magnesium, aluminum, and zinc, can rapidly generate hydrogen, which is explosive.

Special Fire Fighting Procedures: Fire fighters should wear full protective gear including self contained breathing apparatus.

Section #6: Accidental Release Measures

Spill and Leak Procedure: Small spills: Wash area with water. If possible, neutralize with dilute acid, preferably acetic acid. Wash area again with water. Water must go to a treatment plant not to the environment.
Large spills: Dike or contain material and recover it for use as originally intended. Wash area with water. If possible, neutralize with dilute acid, preferably acetic acid. Wash area again with water. Water must go to a treatment plant not to the environment.

Disposal: Dispose of in accordance with applicable environmental standards.

Safety Data Sheet

Product Name: CS20: Blended Caustic HD

Revision Date: June 4, 2015

Continued from previous page...

Page 4 of 5

Section #7: Handling and Storage

- Precautions to be Taken in Handling:** Avoid contact with eyes, skin, and clothing
Do not ingest.
Keep container tightly closed when not in use.
- Precautions to be Taken in Storage:** Avoid temperatures above 120°F.
Protect container against physical damage, moisture and water.
Store in a dry, well-ventilated area away from acids, metals, explosives, organic peroxides and easily ignitable material.
Normal shelf life 1 year.
Store in a cool, dry place.
Do not store with or n

Section #8: Exposure Controls / Personal Protection

- Permissible Exposure Limits:** ACGIH TLV = 2 mg/m³ for Sodium Hydroxide
- Ventilation:** Use adequate ventilation to keep airborne levels below the exposure limits.
- Eye Protection:** Chemical safety goggles and face shield.
Eyewash fountain in the workplace strongly recommended.
- Skin Protection:** Rubber gloves. Splash apron.
Shower in work area is recommended.
- Respiratory Protection:** Use NIOHS/MSHA approved mist filter respirator for work purposes when exposure to mists exceed their permissible exposure limits.
- Other Protection Equipment:** Any other protective clothing or use of equipment necessary to prevent eye and skin contact.

Section #9: Physical and Chemical Properties

- | | |
|---|--|
| Appearance: Clear To Hazy, Amber To Brown Solution | Flammable Limits: Not Applicable |
| Odor: Mild Odor | Vapor Pressure: Similar to water |
| Odor Threshold: No Information Available. | Vapor Density: Similar to water |
| pH (1% sol'n, unless noted): 12-13 | Relative Density: No Information Available. |
| Melting Point (deg. F): No Information Available. | Solubility in Water: Complete |
| Boiling Point (deg. F): Greater that 212 | Partition Coefficient: No Information Available. |
| Flash Point: Not Applicable | Auto-ignition (deg. F): No Information Available. |
| Evaporation Rate: Similar to water | Decomposition (deg. F): No Information Available. |
| Flammability (NFPA Rating): 0 | Viscosity: No Information Available. |

Section #10: Stability and Reactivity

- Reactivity (NFPA Rating):** 1
- Chemical Stability:** Stable
- Hazardous Reactions:** Will not occur.
- Conditions to Avoid:** Avoid temperatures above 120°F or below 40°F
- Incompatibility:** Stron Acids, Organic Material, Amphoteric Metals.
- Hazardous Decomposition Products:** None Known

Safety Data Sheet

Product Name: CS20: Blended Caustic HD

Revision Date: June 4, 2015

Continued from previous page...

Page 5 of 5

Section #11: Toxicological Information

This product is corrosive to eyes, skin, etc.

Ingredients as Carcinogens: To the best of our knowledge, this product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be 'probable' or 'suspected' human carcinogens.

Section #12: Ecological Information

No data available.

Section #13: Disposal Considerations

Best route is to use product for its originally intended purpose.
Dispose of in accordance with applicable environmental standards.

Section #14: Transport Information

DOT Proper Shipping Name: Corrosive Liquid,Basic,Inorganic,N.O.S., (Sodium Hydroxide)

DOT Hazard Class: 8

DOT UN Number: UN 3266

DOT Label: Corrosive

DOT Packing Group: II

The shipping name listed above applies to a 55 gallon drum size (~500 lbs) of the product offered for ground transport. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment. Refer to Section #16 as possible alternates may be listed.

Section #15: Regulatory Information

TSCA: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

RCRA Hazard Class: Product waste may exhibit characteristic of corrosiveness.

CERCLA RQ: Listed "Sodium Hydroxide" RQ 1,000 Lbs. (2,000 Lbs. Of This Product)

SARA Title III

Extremely Hazardous Substance: None Listed.

Hazardous Substance: Hazard due to: Corrosiveness

Hazard Catagorization: ☐ Sudden Release of Pressure ☒ Immediate (Acute) Health
☐ Reactive ☐ Delayed (Chronic) Health
☐ Fire

Section 313 Chemicals: None listed.

STATE RIGHT-TO-KNOW

CHEMICAL NAME	CAS NUMBER	LIST
Sodium Hydroxide	1310-73-2	MA,MN,NY,PA1, PA3

MA=Massachusetts Hazardous Substance. MN=Minnesota Hazardous substance NY=New York Hazardous Substance PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%) PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1%)

Section #16: Other Information

Revision Date: June 4, 2015

No other information listed.

We believe that the statements, technical information, and recommendations contained herein are reliable. However, since data, safety standards, and government regulations are subject to change and conditions of handling and of use or misuse are beyond our control, and since health and safety precautions given may not be adequate for all individuals and/or situations, we make no warranty, either expressed or implied, with respect to the continuing accuracy of the information contained herein.