

MATERIAL SAFETY DATA SHEET

Total Solutions
P.O. Box 240014
Milwaukee, WI 53224



GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

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I - Product Identification

Sludge Treat

PRODUCT CODE: 0645

CHEMICAL FORMULATION: Steam boiler water treatment.

NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH:** 2

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATING: 4 - Extreme;

3 - High;

2 - Moderate;

1 - Slight;

0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

| <u>SUBSTANCE</u> | <u>APPROX</u> | <u>OSHA</u> | <u>ACGIH</u> | <u>EPA 40 CFR:</u> | | | <u>CAS #</u> |
|------------------|---------------|---------------------|-----------------------|--------------------|------------|------------|--------------|
| | <u>%</u> | <u>PEL</u> | <u>TLV</u> | <u>302</u> | <u>355</u> | <u>372</u> | |
| Sodium Hydroxide | 1.00-5.00 | 2 mg/m ³ | 2 mg/m ³ C | Y | N | N | 1310-73-2 |

Key: **PEL:** Permissible Exposure Limit **TLV:** Threshold Limit Value **C:** Ceiling level **STEL:** Short Term Exposure Limit
N/A: Not Applicable **N/D:** Not Determined **N/E:** Not Established **Y:** Yes **N:** No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 1.06

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Soluble

pH: 13.0-14.0

APPEARANCE AND ODOR: Clear, gold liquid; no odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): N/A

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %) **UPPER:** N/D **LOWER:** N/D

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None.

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Strong acids.

CONDITIONS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X

INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None.

EFFECTS OF OVEREXPOSURE

IF IN EYES: Severe irritation, redness, tearing, destruction of tissue.

IF ON SKIN: Severe irritation and redness. Chemical burns with prolonged exposure.

IF SWALLOWED: Corrosive- Harmful or fatal if swallowed. Gastrointestinal irritation, cramps, burns to mucous membranes.

IF INHALED: Irritation to upper respiratory tract, pulmonary edema, laryngeal spasms.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

IF ON SKIN: Flush skin with water while removing contaminated clothing. Launder clothing separately before reuse. Continue flushing with water for at least 15 minutes. Obtain medical attention.

IF SWALLOWED: Contact physician or poison control center immediately. Rinse mouth with water and give affected person 1 to 2 glasses of water. Do not induce vomiting. Never give anything to an unconscious person.

IF INHALED: Remove person to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

VENTILATION

LOCAL: Recommended

MECHANICAL: Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses or chemical goggles

OTHER PROTECTIVE EQUIPMENT: Protective clothing, emergency shower and eye wash station.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from acids. Keep container tightly closed when not in use. Always add this product to water, never add water to this product.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: Corrosive liquids, N.O.S. (Sodium Hydroxide)

DOT CLASS: 8

DOT ID NUMBER: UN1760

DOT PACKING GROUP: II

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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