

SUNCOAST CHEMICALS, INC

MATERIAL SAFETY DATA SHEET

Z-400-S CONCENTRATE

NFPA HAZARD RATINGS

Health : 3 Fire: 0 Instability: 0

IDENTIFICATION

Product Name: Z-400-S Concentrate

Chemical Name: N/A

Formula: PROPRIETARY

Manufacturer: Suncoast Chemicals, Inc., 2902 East X Street,
PO Box 1509, Deer Park, TX 77536

PHYSICAL PROPERTIES

Boiling Point: 760 mm Hg: 230° F

Specific Gravity (H₂O=1): 1.14 – 1.16

Freezing Point: Aprox 25° F

Vapor Pressure: N/A

Evaporation Rate: Slightly less than water

Vapor Density (air=1): N/A

Solubility in Water by Wt: 100%

Appearance: Green Liquid

Odor: Fresh Evergreen

Physical State: Liquid

pH: 12.4 – 13+

FIRE HAZARD INFORMATION

Flash Point: This Product is non-flammable

Flammable Limits: N/A

Special fire fighting procedures: Fire fighters should wear self-contained positive pressure breathing apparatus and avoid skin contact.

Extinguishing Media: Foam, Carbon Dioxide, or chemical media

Unusual fire and explosive hazards: None

HEALTH HAZARD DATA

Threshold limit value: Estimated @ 2 mg/m³ (estimated for caustic solution).

Effects of Exposure:

Exposure: May aggravate existing skin and/or eye conditions on contact.

Inhalation: Inhalation of solution mist can cause mild irritation at 2 mg/m³. More severe burns and tissue damage at the upper respiratory tract can occur at higher concentrations. Pneumonitis can result from severe exposures.

Skin Contact: Major potential hazard-contact with the skin can cause severe burns with deep ulceration's. Contact with solution or mist can cause multiple burns with temporary loss of hair at burn site. Solution may not cause irritation and burning for several hours.

Eye Contact: Major potential hazard-liquid in the eye can cause severe destruction and blindness. These effects can occur rapidly, effecting all parts of the eye. Mist or dust can cause irritation with high concentrations, causing destructive burns.

Ingestion: Ingestion of sodium hydroxide can cause severe burning and pain in lips, mouth, tongue, throat and stomach. Severe scarring of the throat can occur after swallowing. Death can result from ingestion.

DO NOT induce vomiting due to risk of aspiration

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration. Get medical attention immediately.

Skin: Remove contaminated clothing immediately and wash skin thoroughly for a minimum of 15 minutes with large quantities of water (preferably a safety shower). Get medical attention immediately.

Eyes: Wash eyes immediately with large amounts of water (preferably eye wash fountain), lifting the upper and lower eyelids and rotating eyeball. Continue washing for a minimum of 15 minutes. Get medical attention immediately.

Ingestion: If person is conscious, give large quantities of water to dilute caustic. Do not induce vomiting. Get medical attention immediately. Do not give anything by mouth to an unconscious person.

Chronic toxicity: N/A

INSTABILITY/REACTIVITY

Stability: Stable

Conditions to avoid: Mixture with acid or incompatible materials can cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas.

Incompatibility: Chlorinated and fluorinated hydrocarbons (i.e., chloroform, difluoroethane), acetaldehyde, acrolein, aluminum, chlorine trifluoride, maleic anhydride, phosphorous pentoxide and tetrahydrofuran..

Hazardous decomposition products: May liberate carbon monoxide and oxides of nitrogen.

Hazardous polymerization: Will not occur.

PERSONAL PROTECTION AND CONTROLS

Respiratory protection: Where concentrations exceed or are likely to exceed 2mg/m³ use a NIOSH/MSHA approved high-efficiency particulate filter with full face piece or self-contained breathing apparatus. Follow any applicable respirator use standards and regulations.

Ventilation: As necessary to maintain concentration in air below 2mg/m³ at all times .

Skin protection: Wear neoprene, PVC or rubber gloves; PVC rain suit; rubber boots with pant legs over boots.

Eye protection: Chemical goggles which are splashproof and faceshield.

Hygiene: Avoid contact with skin and avoid breathing mist. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restroom. Any protective clothing or shoes which become contaminated with caustic, should be removed immediately and thoroughly laundered before wearing again.

Other control measures: Safety shower and eyewash station must be located in immediate work area. To determine the exposure level(s), monitoring should be performed regularly. Note: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations.

HMIS CODE

Health: 3 Flammability: 0 Reactivity: 2 PPE: J

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Z-400-S CONCENTRATE

STORAGE AND HANDLING PRECAUTIONS

Store in closed, properly labeled tanks or containers. Do not remove or deface labels or tags. When diluting with water, slowly add caustic solution to the water. Full protective clothing, goggles and faceshield should be worn. Contact of caustic soda cleaning solutions with food and beverage products (in enclosed vessels or spaces) can produce lethal concentrations of carbon monoxide gas. Do not enter confined spaces, such as tanks or pits without following proper entry procedures as required by 29 CFR 1910.146.

SARA Title III Hazard Categories: N/A

FOR INDUSTRIAL USE ONLY

SPILL, LEAK AND DISPOSAL PRACTICES

Steps to be taken in case material is released or spilled: Cleanup personnel must wear proper protective equipment. Completely contain spilled material with dikes, sandbags, etc., and prevent run-off into ground or surface waters or sewers. Recover as much material as possible into containers for disposal. Remaining material may be diluted with water and neutralized with diluted phosphoric acid. Neutralization products, both liquid and solid, must be recovered for disposal.

Waste disposal method: Recovered solids or liquids may be sent to a licensed reclaimer or disposed of in a permitted waste management facility. Consult federal, state or local disposal authorities for approved procedures.

TRANSPORTATION

Dot hazard classification: Corrosive liquid, n.o.s. (Sodium Hydroxide) 8, UN1760, PGII, Class 55

Placard required: Corrosive, UN1760, Class 8

Label required: Corrosive, Class 8. Label as required by OSHA hazard communication standard and any applicable state and local regulations.

HAZARDOUS INGREDIENTS

Name: Sodium Hydroxide

CAS Number: 1310-73-2

Percent: 13%

ACGIH TLV: N/A

PEL: 2mg

Carcinogen: NO

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

Suncoast Chemicals, Inc
800-843-5417

MSDS Date: July 14, 1997 (Revised 06/13)

MSDS Number: Z100S

CHEMTREC 24 HOUR EMERGENCY #: 800-424-9300

WEB SITE:
www.suncoastchem.net