



MATERIAL SAFETY DATA SHEET

P.O. BOX 1298
WALLA WALLA, WA 99362
Emergency Telephone: 509-522-0490

IDENTIFICATION

CHEMICAL NAME: Benzofloc 80C
SUBSTANCE: Sodium Hydroxide, solution
FORMULA: Proprietary
CHEMICAL FAMILY: Inorganic/blend
PRODUCT INFORMATION: (509) 522-0490

EMERGENCY INFORMATION: (800) 247-9011

HAZARDOUS INGREDIENTS

| INGREDIENT | CAS # |
|------------------|---------------|
| Water | 7732 - 18 - 5 |
| Sodium Hydroxide | 1310 - 73 - 2 |
| Sodium Carbonate | 497 - 19 - 8 |
| Sodium Chloride | 7647 - 14 - 5 |

All Ingredients Are Listed On The TSCA Chemical Substance Inventory

PHYSICAL DATA

| | | |
|---------------------|------------------|---------------------------------------|
| BOILING POINT | : 293 F | pH : < 14 |
| SOLUBILITY IN WATER | : Water solution | VAPOR PRESSURE : 1.52, 0.2 kPa @ 20 C |
| SPECIFIC GRAVITY | : 1.432 | % VOLATILE : No information |
| EVAPORATION RATE | : None Found | COLOR : Colorless to slight color |
| FORM | : Liquid | ODOR : None |

FIRE AND EXPLOSION HAZARDS

FLASH POINT : Not Applicable
FLAMMABLE LIMITS IN AIR : UFL : Not Applicable LFL : Not Applicable
(% by Volume)
EXTINGUISHING MEDIA : Non-combustible.
SPECIAL FIRE FIGHTING INSTRUCTIONS : Cool exposed tanks with water
SPECIAL FIRE AND EXPLOSION HAZARDS : In water, caustic can react with amphoteric metals (such as aluminum) generating hydrogen. Contact with water or acids may generate sufficient heat to ignite nearby combustible material; self contained breathing apparatus should be worn. Hydrogen is flammable and potentially explosive; appropriate precautions should be taken.

STABILITY : Stable
DECOMPOSITION : None
POLYMERIZATION : Will not occur.
INCOMPATIBILITY : Water and acid. Product is strong caustic alkali. May react violently with water, acid, and number of organic compounds. Caustic reacts rapidly with aluminum, tin, and zinc. It also reacts with bronze and brass. Product absorbs water and carbon dioxide from the air. KEEP CONTAINERS SEALED AND CLOSED.

HEALTH HAZARDS

EXPOSURE LIMITS : The ACGIH TLV is 2 mg/m₃
CARCINOGENICITY : None of the components of this material are listed as a carcinogen by LARC, NTP, OSHA or ACGIH.

TOXICOLOGY

INGESTION : May cause gastrointestinal irritation or ulceration and severe burns of the mouth and throat. Single dose oral LD 50 has not been determined.
EYE CONTACT : Eye contact results in severe irritation with corneal injury and may cause permanent impairment of vision, even blindness. Dusts may irritate eyes.
SKIN CONTACT : Short single exposure may cause severe skin burns. The dermal LD 50 has not been determined.
INHALATION : Dusts or mists may cause severe irritation to upper respiratory tract.

FIRST AID

EYE : Immediately flush eyes for 30 minutes with plenty of water. It may take less than 10 seconds to cause permanent damage. Call a physician immediately.
SKIN : Thoroughly flushing skin with water for over 30 minutes is imperative. Remove contaminated clothing; was before reuse. Call a physician immediately.
INHALATION : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
INGESTION : DO NOT INDUCE VOMITING. Give large quantities of water, then an antacid. Never give anything by mouth to an unconscious person. Call a physician immediately.

NOTE TO PHYSICIAN: Immediate first aid is imperative. Never move victim from water access only on the advice of a qualified medical personnel. CORROSIVE, may cause stricture. If lavage is performed, suggest endotracheal and or esophagoscopy control. STRONG ALKALI, if burn is present, treat as thermal burn after decontamination. Eye irrigation may be needed for extended period of time. Duration of irrigation is at the discretion of the medical personnel. No specific antidote.

PERSONAL PROTECTION

Adequate general ventilation should be provided to keep vapor and mists below exposure limits.

Wear safety glasses with side shields. Wear a face shield if possibility of material splashing or spraying exists. Where there is possibility of skin contact, use the following as appropriate: gloves impervious to material, apron, boots, hood, pants and jacket. Wear a NIOSH/OSHA approved respirator with a dust/mist cartridge if there is potential of exposure to mists in excess of applicable limits.

MAINTAIN EYE WASH FOUNTAIN AND SAFETY SHOWER IN WORK AREA.

SPILL/LEAK PROCEDURE

Review safety precautions before proceeding with cleanup. Only trained and properly protected personnel should be involved in spill cleanup. Acting cautiously, small accidental spills should be flushed with water. Dilute acid, preferably acetic acid may be used to neutralize the final traces after flushing.

SHIPPING INFORMATION

DOT EMERGENCY RESPONSE GUIDE NUMBER : 60

PROPER SHIPPING NAME : Sodium Hydroxide, solution.
HAZARD CLASS : Corrosive
UN/NA#: UN 1824
DOT LABELS : Corrosive
DOT PLACARDS : Corrosive
PACKAGING GROUP : III

REPORTING QUANTITY : EPA Regulation 40 CFR 302 (CERCLA Section 102) Sodium Hydroxide solution, 1000 pounds

THRESHOLD PLANNING QUANTITY: EPA Regulation 40 CFR 355 (SARA Section 301-304)
TOXIC CHEMICAL RELEASE : EPA Regulation 40 CFR 372 (SARA Section 311- 313)
This product contains approximately 25% Sodium Hydroxide, CAS
#1310 -73 - 2

STORAGE CONDITIONS

Store in a clean dry place. Do not store in underground tanks. Product absorbs water and carbon dioxide from air. Keep containers closed and sealed.

HANDLING PRECAUTIONS

Always add caustic to water with constant agitation. NEVER add water to the caustic solution. The water should be luke warm. NEVER start with hot or cold water. The addition of caustic soda to a liquid will cause a rise in temperature. If caustic soda becomes concentrated in one area or is added to rapidly or is added to a hot or cold liquid a rapid temperature increase can result in DANGEROUS mists or boiling or spattering which may cause an immediate VIOLENT ERUPTION.

TITLE III HAZARD CLASSIFICATIONS

ACUTE : Yes
CHRONIC : No
FIRE : No
REACTIVITY : Yes
PRESSURE : No

EXTREMELY HAZARDOUS SUBSTANCE : Yes
TOXIC CHEMICAL : Yes

| | | | | | |
|----------------|--------------|-----|---------------|--------------|-----|
| NFPA RATINGS : | HEALTH | : 3 | HMIS RATINGS: | HEALTH | : 3 |
| | FLAMMABILITY | : 0 | | FLAMMABILITY | : 0 |
| | REACTIVITY | : 1 | | REACTIVITY | : 2 |

ADDITIONAL INFORMATION AND REFERENCES

This Material Safety Data Sheet refers only to the specific material designated herein, and does not relate to use in combination with any other material or in any process.