# MATERIAL SAFETY DATA SHEET

Health 3
Flammability 0
Reactivity 1
Corrosive

CONFIDENTIAL

**Section I:**

Manufactures Name: Walling Chemical Company
Address: 2008 Westport Ave., Box 408, Sioux Falls, SD 57117-0408
Phone #: 605-336-6710
Date Prepared: 12-9-85
Product Identity: WB-12
Synonyms: Sodium Hydroxide, Caustic, Lye

**Section II: Hazardous Ingredients/Identity Information**

| Hazardous Components | OSHAPEL | ACGIH-TLV | Flammability | LEL | UEL |
|---|---|---|---|---|---|
| Sodium Hydroxide | 2mg/m$^3$ ceiling | 2mg/m$^3$ ceiling | NA (0) | NA | NA |
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Other Cited Data: None

Comments Sodium hydroxide generates heat upon dilution and reacts violently with acid.

**Section III: Physical/Chemical Characteristics**

Boiling Point NA Specific Gravity ($H_2O = 1$) NA
Vapor Pressure NA Melting Point Unknown
pH 10% Sol.=14 Evaporation Rate (Butyl acetate = 1) <1
Appearance and odor White granular, odorless

**Section IV: Fire and Explosion Data**

Flash Point None
Extinguishing Media Water*, $CO_2$, foam, dry chemical
Special Fire Fighting Procedures *Avoid wetting sodium hydroxide if possible due to the resulting corrosive solution.
Unusual Fire and Explosion Hazards None

**Section V: Reactivity Data**

Stability: Stable Yes Unstable No
Conditions to avoid Acids, moisture

Incombatability Acids, aluminum, and zinc

Health

ardous Decomposition or By Products None

azardous Polymerization: Will Occur - Will Not Occur X

**Section VI: Health Hazard Data**

Routes of Entry: Inhalation Yes Skin Yes Ingestion Yes

Health Hazards (Acute and Chronic) Eyes: Severe burns, blindness Skin: Severe burns Inhalation: Tissue damage Ingestion: Tissue damage

Carcinogenicity: NTP No IARC No

OSHA Regulated No Other No

Signs and Symptoms of Exposure: Eyes: Burns, damage to cornea or blindness. Skin: Severe burns possible Inhalation: Lung damage, mucous membrane damage or burns Ingestion: Corrosive to tissues

Medical Conditions Aggravated by Exposure: Dust would aggravate any respiratory condition.

Emergency and First Aid Procedures: Eyes: Immediately flood and irrigate with flowing water. Seek medical attention Skin: Brush off excess if dry, then immediately flush with flowing water for 15-30 minutes. Remove contaminated clothing Inhalation: Remove to fresh air. Consult a doctor. Ingestion: Do not induce vomiting. Call a doctor at once. Give water to dilute.

**Section VII: Precautions for Safe Handling and Use.**

Steps to be taken in case material is released or spilled: Sweep or shovel up and transfer to a suitable vessel. Salvage or hold for proper dilution and neutralization with dilute acid. Do not attempt to neutralize dry caustic. Do not allow unneutralized product to outer sewer or natural waters. Contact local authorities for advice.

Waste Disposal Method Follow Federal, State, and local regulations.

Precautions to be taken in handling and storing: Store away from acids or alkali incompatables.

er precautions: Keep product sealed when not in use. Avoid creating dusts.

**Section VIII: Control Measures**

Respiratory Protection: NIOSH approved for Nuisance dusts

Ventilation: Local Exhaust Regular Special No
Mechanical (Type) Vent Fan Other No

Protective Gloves Rubber Eye Protection Face shield

Other Eye wash, shower, protective clothing

Comments: BWT-106 is a concentrated corrosive product. Use extreme care and practice proper safety measures and good personal hygiene when using this product.

**References Used:**


Third Annual Report on Carcinogens
NTIS
Research Triangle Park, NC

Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids (1984)
NFPA
Batterymarch Park, Quincy, MA 02269

OSHA Safety and Health Standards
(29 CFR 1910) OSHA 2206
U.S. Dept. of Labor
Washington, D.C. 20402

Threshold Limit Values and Biological Exposure Indices For 1985-86
ACGIH, Cincinnati, OH 45211