

HAVILAND PRODUCTS COMPANY

SAFETY DATA SHEET



Section 1: Identification

Product Name: Caustic Soda 50% Liquid - NSF
Haviland Products Company
421 Ann Street NW
Grand Rapids, MI 49504
(616) 361-6691

Product Code:H000373

Emergency Phone
CHEMTREC: Canada and USA - (800) 424-9300
CHEMTREC: In Mexico - 01-800-681-9531



Certified to
NSF/ANSI 60

Product Use: Industrial
Not recommended for: NA

Section 2: Hazard(s) Identification

GHS Ratings:

Corrosive to metals 1
Skin corrosive 1A

Eye corrosive 1

Organ toxin single exposure 1

Aquatic toxicity A3

Corrosive to metals
Destruction of dermal tissue: Exposure < 3 min. Observation
< 1 hour, visible necrosis in at least one animal
Serious eye damage: Irreversible damage 21 days after
exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Significant toxicity in humans- Reliable, good quality human
case studies or epidemiological studies, Presumed
significant toxicity in humans- Animal studies with significant
and/or severe toxic effects relevant to humans at generally
low exposure (guidance)
Acute toxicity ≤ 10.0 but < 100 mg/l

GHS Hazards

H290 May be corrosive to metals
H314 Causes severe skin burns and
eye damage
H318 Causes serious eye damage
H370 Causes damage to organs
H402 Harmful to aquatic life

GHS Precautions

P234 Keep only in original container
P260 Do not breathe
dust/fume/gas/mist/vapors/spray
P264 Wash face, hands, and any exposed
skin thoroughly after handling
P270 Do not eat, drink or smoke when using
this product
P273 Avoid release to the environment
P280 Wear protective gloves/protective
clothing/eye protection/face protection
P310 Immediately call a POISON CENTER or
doctor/physician
P321 Specific treatment (see first aid
treatment on SDS)
P363 Wash contaminated clothing before
reuse
P390 Absorb spillage to prevent material
damage
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do
NOT induce vomiting

| | |
|----------------|---|
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P307+P311 | IF exposed: Call a POISON CENTER or doctor/physician |
| P405 | Store locked up |
| P406 | Store in a corrosive resistant container with a resistant inner liner |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations |

Danger



Section 3: Composition/Information on Ingredients

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|----------------------|-----------------------|------------------------|
| Sodium hydroxide 1310-73-2 50 percent | 2 mg/m3 TWA | 2 mg/m3 Ceiling | NIOSH: 2 mg/m3 Ceiling |

Section 4: First-aid Measures

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-fighting Measures

Extinguishing Media

Use media suitable for the surrounding fires.

Specific Hazards Arising from the Chemical

In water solution, sodium hydroxide can react with amphoteric metals, generating hydrogen,

which is a flammable and/or explosive gas when ignited. Contact with acids or strong oxidizers will cause vigorous reaction, with generation of heat and can cause splattering of corrosive mist. Contact with acids will also release large amounts of CO₂ gas.

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Use appropriate safety equipment. Contain spilled material if possible. Neutralize and collect in suitable and properly labeled containers. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Section 7: Handling and Storage

Handling Procedures

Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Do not inhale vapors or mists of this product. Never add water to product. For dilutions, add product slowly to water while stirring. Use caution; heat may be generated.

Storage Requirements

Keep containers tightly closed when not in use and protect from damage. Store in a cool, well-ventilated area.

Section 8: Exposure Control/Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|-------------------------------|-------------------------|-----------------------------|------------------------------------|
| Sodium hydroxide 1310-73-2 | 2 mg/m ³ TWA | 2 mg/m ³ Ceiling | NIOSH: 2 mg/m ³ Ceiling |

Engineering Controls

Provide ventilation sufficient to maintain exposure below the recommended limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGIENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

| | |
|--|---|
| Appearance: Colorless liquid Vapor Pressure: 23.76 mm HG @ 25 °C Vapor Density: Unknown Density: 12.77 lbs/gal Freezing point: Unknown Boiling range: Unknown Evaporation rate: Unknown Explosive Limits: Unknown | Odor: Odorless Odor threshold: Unknown pH: Strongly Basic Melting point: 10-12.8°C Solubility: Unknown Flash point: Unknown Flammability: Unknown Partition coefficient (n-octanol/water): Unknown |
|--|---|

Autoignition temperature: Unknown

Viscosity: Unknown

Decomposition temperature: Unknown

Grams VOC less water: Unknown

Section 10: Stability and Reactivity

Chemical Stability:

STABLE

Incompatible Materials

Contact with organic materials and concentrated acids may cause violent reactions. Contact with magnesium, aluminum, galvanized zinc, tin, chromium, brass, and bronze generates explosive hydrogen. Reactions with various food sugars may form carbon monoxide.

Conditions to Avoid

None known

Hazardous Decomposition Products

Carbon monoxide. Heated to decomposition, it emits fumes of sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Hazardous Polymerization

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Dermal Toxicity LD50: 2,700mg/kg

Routes of Entry:

Inhalation
Ingestion
Skin contact
Eye contact

Target Organs

Eyes Skin Respiratory System

Effects of Overexposure

Emergency Overview

Contact with this material will cause burns to the skin, eyes and mucous membranes. May be harmful if swallowed.

Health Effects

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness. Corrosive to the skin. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Inhalation of mists of this product may cause severe irritation and burns to the respiratory tract.

CAS Number

Description

% Weight

Carcinogen Rating

Section 12: Ecological Information

Component Ecotoxicity

Sodium hydroxide 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Information

UN Code: 1824

DOT Name: Sodium Hydroxide, Solution

Hazard Class: 8

Package Group: II

Section 15: Regulatory Information**Country****Regulation****All Components Listed****Section 16: Other Information**

Date Prepared: 8/24/2018

Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.