## HAVILAND PRODUCTS COMPANY SAFETY DATA SHEET



Section 1: Identification

New York

( )

Product Name: Bleach - Sod Hypochlorite-NSF Product Code:H000196

Haviland Products Company 421 Ann Street NW Grand Rapids, MI 49504 (616) 361-6691

Emergency Phone CHEMTREC (800) 424-9300 CHEMTREC International (703) 527-3887

Product Use: Industrial Not recommended for: No data available

### Section 2: Hazard(s) Identification

GHS Ratings:		
Corrosive to metals	1	Corrosive to metals
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure,  Draize score: Corneal opacity >= 3, Iritis > 1.5
Organ toxin single exposure	3	Transient target organ effects- Narcotic effects- Respiratory tract irritation
Organ toxin repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases
Aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

## **GHS Hazards**

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

## **GHS Precautions**

P234	Keep only in original container
P260	Do not breathe
	dust/fume/gas/mist/vapors/spray
P261	Avoid breathing
	dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed
	skin thoroughly after handling
P271	Use only outdoors or in a well-ventilated
	area
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
P312	Call a POISON CENTER or
	doctor/physician if you feel unwell
P314	Get Medical advice/attention if you feel
	unwell
P321	Specific treatment (see first aid
	treatment on SDS)

Section 5: Fire-fighting Measures				
LEL:	UEL:			
Extinguishing Media				
Regular dry chemical, carbon dioxide, water, or f	oam suitable for surrounding fire . For large fires, use regular foam or			
flood with fine water spray.				
Specific Hazards Arising from the Chemical				
Negligible fire hazard. Oxidizer, This material will	react with some metals and cause liberation of oxygen . May ignite			
or explode on contact with combustible materials	. Toxic fumes can be liberated by contact with acid or heat .			

#### **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 RELEASE OR SPILLED:

Do not touch spilled material. Stop leak if possible without personal risk. For small spills, collect spilled material in appropriate container for disposal and consider absorbing with sand or other noncombustible material (e.g., do not use

sawdust or other combustible material). Be advised, however, that the use of absorbing material is creating hazardous

waste and this absorbing material must now be disposed of properly. Collect spilled material in appropriate container for

disposal.

#### Section 7: Handling and Storage

#### **Handling Procedures**

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling. **Storage Requirements** 

Store in vented, closed containers that provide protection from direct sunlight. Keep separated from incompatible substances and do not store near acids, heat, or oxidizable materials or organics. When handling, do not mix with other cleaning agents that may liberate chlorine gas vapors.

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Sodium hypochlorite 7681-52-9			
Sodium hydroxide 1310-73-2	2 mg/m3 TWA	2 mg/m3 Ceiling	NIOSH: 2 mg/m3 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.

HYGENIC 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. Vapor Pressure: 14.5 @ 20°C Vapor Density: Unknown Density: Unknown Freezing point: Unknown Boiling range: 230°F ( 110°C) Evaporation rate: Unknown Explosive Limits: Unknown

Viscosity: Unknown

Appearance: Light yellow-green liquid

Odor: Pungent chlorine-like odor Odor threshold: Unknown pH: Unknown Melting point: -20° to -30°F Solubility: Unknown Flash point: Unknown Flammability: Unknown Partition coefficient (n- Unknown octanol/water): Decomposition temperature: Unknown Grams VOC less water: Unknown

#### Section 10: Stability and Reactivity

## Chemical Stability:

STABLE

**Incompatibile Materials** Acids, metals, amines, combustible materials, reducing agents. Specific reactions with sodium Hypochlorite include the following: ACIDS: Violent reaction. ALUMINUM: Corrosive action. AMINES: Form explosive chloramines. AMMONIA: Form explosive chloramines AMMONIUM SALTS: May form explosive product. BENZYL CYANIDE (ACIDIFIED): explosive reaction. ETHYLENEIMINE: Forms explosive 1-chloroethyleneimine. FORMIC ACID: Explosive mixture. METHANOL: May form explosive compound. NITROGEN COMPOUNDS: Forms explosive N-chloro compounds. ORGANIC AND COMBUSTIBLE MATERIALS: Fire and explosion hazard. OXALIC ACID: Intense reaction. **REDUCING AGENTS: Fire and explosion hazard** ZINC: Corrosive

Conditions to Avoid Avoid heat, flames, sparks and other sources of ignition . Dangerous gases may accumulate in confined spaces. May ignite or explode on contact with combustible materials. Hazardous Decomposition Products Chlorine and Hydrochloric Acid Vapors.

**Hazardous Polymerization** 

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity Component Toxicity 1310-73-2 Sodium hydroxide Dermal LD50: 1,350 mg/kg (Rabbit)

Routes of Entry: Inhalation						
Ingestion						
Skin contact						
Eye contact						
Target Organs						
Eyes Skin R	Respiratory System					
Effects of Overexposure						
Acute Effects						
Ingestion: Causes irritation of membranes Skin Contact: Irritant, reddening of skin, si		pain and possible ulceration.				
Inhalation: Fumes from spills are very irrit						
Eye Contact: Extreme irritant, corrosive Chronic Effects						
Eye: Can cause damage.						
Skin: Can cause damage, chemical burn.						
Carcinogenicity						
Not classified or listed by IARC, N	NTP or OSHA.					
CAS Number D	Description	<u>% Weight</u>	Carcinogen Rating			
		Manage Sport of the State Sta				
Section 12: Ecological Information						
Component Ecotoxicity						
Sodium hypochlorite	•	96 Hr LC50 Pimephales promelas: 0.06 - 0.11 mg/L [flow-through]; 96 Hr LC50				
	Pimephales promelas: 4.5 - 7.6 mg/L [static]; 96 Hr LC50 Lepomis macrochirus:					
	<b>.</b>	0.4 - 0.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 0.28 - 1 mg/L [flow-				
	through]; 96 Hr LC50 Oncorhynchus mykiss: 0.05 - 0.771 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.03 - <0.19 mg/L [semi-static]; 96 Hr LC50					
	-	Oncorhynchus mykiss: 0.18 - 0.22 mg/L [static]				
	48 Hr EC50 Daphni	48 Hr EC50 Daphnia magna: 0.033 - 0.044 mg/L [Static]				
	96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]					
Sodium hydroxide	96 Hr LC50 Oncorh	ynchus mykiss: 45.4 mg/	L [static]			
Sodium hydroxide Section 13: Disposal Considerations	96 Hr LC50 Oncorh	iynchus mykiss: 45.4 mg/	L [static]			
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Section 13: Disposal Considerations	cal, state and federal regulation	• • • • • • • • • • • • • • • • • • •	L [static]			
Section 13: Disposal Considerations Dispose of in accordance with loc	cal, state and federal regulations	ons.				
Section 13: Disposal Considerations Dispose of in accordance with loc Section 14: Transportation Informations	cal, state and federal regulations	ons.				

# CERCLA/SARA Hazardous Substances

1310-73-2 Sodium hydroxide 7681-52-9 Sodium hypochlorite

## TSCA 8(b) Inventory

1310-73-2 Sodium hydroxide 7681-52-9 Sodium hypochlorite

## **Country**

**Regulation** 

## All Components Listed

NSF maximum use level: 84 mg / L

Date Prepared: 6/16/2015

#### 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.

**Reviewer Revision**