

## 1. Product and Company Identification

<b>Product Code:</b>	4791	
<b>Product Name:</b>	SOLID MACHINE DISH DETERGENT XL	Revision: 02/26/2021
<b>Product No:</b>	540-0408	Supersedes Revision: 12/04/2017
<b>Manufacturer Information:</b>		
<b>Company Name:</b>	Native Green LLC 180 A Engelwood Dr. Orion, MI 48326	<b>Phone Number:</b> (888)456-6444
<b>Web site address:</b>	nativegreen.com	
<b>Emergency Contact:</b>	Chemtrec, Reference: CCN203605	(800)424-9300
<b>Information:</b>	<a href="mailto:info@nativegreen.com">info@nativegreen.com</a>	(888)456-6444

## 2. Hazards Identification

**Skin Corrosion/Irritation, Category 1A**  
**Serious Eye Damage/Eye Irritation, Category 1**



<b>GHS Signal Word:</b>	<b>Danger</b>
<b>GHS Hazard Phrases:</b>	H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.
<b>GHS Precaution Phrases:</b>	P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves and eye protection.
<b>GHS Response Phrases:</b>	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or physician for treatment advice. Have product container or label with you when calling poison control center or physician. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment see appropriate section of the SDS. P363 - Wash contaminated clothing before reuse.
<b>GHS Storage and Disposal Phrases:</b>	P405 - Store locked up. P501 - Dispose of contents/container to trash after rinsing container.

## Potential Health Effects

### (Acute and Chronic):

- Inhalation:** Material is irritating to mucous membranes and upper respiratory tract.
- Skin Contact:** Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.
- Eye Contact:** Causes eye burns. May cause chemical conjunctivitis and corneal damage. Lachrymator (substance which increases the flow of tears).
- Ingestion:** May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. Harmful if swallowed.

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	50.0-65.0 %
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	< 7.0 %

## 4. First Aid Measures

### Emergency and First Aid

#### Procedures:

- In Case of Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical aid. Remove from exposure and move to fresh air immediately.
- In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
- In Case of Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately. Assure adequate flushing by separating the eyelids with fingers.
- In Case of Ingestion:** Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

## 5. Fire Fighting Measures

- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with metals may evolve flammable hydrogen gas.
- Flammable Properties and Hazards:** No data available.

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Wash thoroughly after handling. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Do not ingest or inhale. Avoid contact with eyes, skin, and clothing.

**Precautions To Be Taken in Storing:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m <sup>3</sup>	CEIL: 2 mg/m <sup>3</sup>	No data.
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** Respirator protection is not normally required.

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Work/Hygienic/Maintenance Practices:** Wash thoroughly after handling.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ ] Liquid [ X ] Solid

**Appearance and Odor:** Mild odor.  
White to off-white solid block

**Melting Point:** No data.

**Boiling Point:** No data.

**Autoignition Pt:** No data.

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Specific Gravity (Water = 1):** ~ 1.0

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Evaporation Rate:** No data.

**Solubility in Water:** >90%

**pH:** > 12.0  
**Percent Volatile:** No data.

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** Avoid contact with acids, reducing agents, oxidizers, nitrogen oxides, amines, ammonia or other nitrogen containing compounds. Exposure to moist air or water, Excess heat.  
**Incompatibility - Materials To Avoid:** Sulfur oxides. Metals. Acids, Aluminum, Zinc, gelatin, nitromethane, leather, Strong acids. fluorine, Hydrogen peroxide.  
**Hazardous Decomposition or Byproducts:** Toxic fumes of sodium oxide, Carbon monoxide, Carbon dioxide.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

**Toxicological Information:** No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	n.a.	n.a.	n.a.	n.a.
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	n.a.	n.a.	n.a.	n.a.

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

**Waste Disposal Method:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide, 1-Hydroxyethylidene-1,1-diphosphonic acid)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3262

**Packing Group:** II



## 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes 1000 LB	No
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

## 16. Other Information

**Revision Date:** 02/26/2021  
**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

<b>HEALTH</b>		<b>2</b>	
<b>FLAMMABILITY</b>		<b>0</b>	
<b>REACTIVITY</b>		<b>1</b>	
<b>PPE</b>	<b>B</b>		

**HMIS:**

**Additional Information About** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

The information contained in this Safety Data Sheet is provided pursuant to current OSHA regulations to convey information concerning the hazardous nature of the named product. The information supplied was compiled from the most reliable sources available at the time of preparation and in light of the most reasonable foreseeable exposure situations expected from the intended use of this product. The material(s) may present greater or lesser hazard exposure under other circumstances that are beyond the control of the manufacturer. Therefore it is imperative that all directions and warnings on the product label be read and closely followed.