

**SAFETY DATA SHEET****OPTIMA ENCAPSULATED DETERGENT****1. Product and Company Identification**

**Product Code:** 4840  
**Product Name:** OPTIMA ENCAPSULATED DETERGENT  
**Revision:** 07/13/2022  
**Supersedes Revision:** 08/21/2018

**Manufacturer Information:** PDQ Manufacturing, Inc.  
 201 Victory Circle  
**Phone Number:** (706)636-1848

**Web site address:** Ellijay, GA 30540  
 www.pdqonline.com

**Emergency Contact:** Chemtrec (800)424-9300 / 24 Hr.  
 Leak, Spill, Exposure, Fire, Accident

**Supplier Name and Address:** .....  
 .....  
 .....  
**Phone Number:** .....

**2. Hazards Identification**

**Skin Corrosion/Irritation, Category 1A**  
**Serious Eye Damage/Eye Irritation, Category 2**  
**Specific Target Organ Toxicity (single exposure), Category 3**  
**Aquatic Toxicity (Acute), Category 2**  
**Aquatic Toxicity (Chronic), Category 2**



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H314 - Causes severe skin burns and eye damage.  
 H319 - Causes serious eye irritation.  
 H335 - May cause respiratory irritation.  
 H411 - Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264 - Wash hands thoroughly after handling.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/eye protection.

**GHS Response Phrases:** 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 section 4 on this SDS.  
 P337+313 - If eye irritation persists, get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 P391 - Collect spillage.

**SAFETY DATA SHEET****OPTIMA ENCAPSULATED DETERGENT****GHS Storage and Disposal Phrases:**

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with all local, regional, national, or international regulations.

**Potential Health Effects (Acute and Chronic):****Inhalation:**

Harmful if inhaled. Irritation may lead to chemical pneumonitis and pulmonary edema. Causes chemical burns to the 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:**

Lachrymator (substance which increases the flow of tears). Causes eye burns. May cause chemical conjunctivitis and corneal damage.

**Ingestion:**

May be harmful if swallowed. May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	10.0 -50.0 %
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	< 3.0 %

**4. First Aid Measures****Emergency and First Aid Procedures:****In Case of Inhalation:**

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.

**In Case of Skin Contact:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult a physician.

**In Case of Eye Contact:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**In Case of Ingestion:**

Get medical aid immediately. Never give anything by mouth to an unconscious person. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**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. Use water spray, dry chemical, carbon dioxide, or appropriate foam. Dry powder.

**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.

**Flammable Properties and Hazards:**Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas, Sodium oxides.

**SAFETY DATA SHEET****OPTIMA ENCAPSULATED DETERGENT****6. Accidental Release Measures****Protective Precautions,  
Protective Equipment and  
Emergency Procedures:**

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

**Steps To Be Taken In Case  
Material Is Released Or  
Spilled:**

Use proper personal protective equipment as indicated in Section 8.  
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment. 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:**

Minimize dust generation and accumulation. Do not ingest or inhale. Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Avoid contact with skin and eyes.

**Precautions To Be Taken in  
Storing:**

Store in a cool, dry place. Store in a tightly closed container. Corrosives area. Store protected from moisture. Never allow product to get in contact with water during storage. Do not store near acids. Moisture sensitive.

**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.
51580-86-0	1,3,5-Triazine-2,4,6-(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	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. Safety glasses with side-shields conforming to EN166.

**Protective Gloves:**

Wear appropriate protective gloves to prevent skin exposure. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**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:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Environmental Exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**SAFETY DATA SHEET****OPTIMA ENCAPSULATED DETERGENT**

**Controls:** Discharge into the environment must be avoided.

## 9. Physical and Chemical Properties

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

**Appearance and Odor:** White granular powder  
Mild chlorine odor.

**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):** No data.

**Density:** ~ 60 LB/CF

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

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

**Evaporation Rate:** No data.

**Solubility in Water:** ~ 20%

**pH:** > 12.5 @ 1%

**Percent Volatile:** No data.

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Incompatible materials, dust generation, Excess heat.

**Incompatibility - Materials To Avoid:** Acids, Strong acids. Metals. fluorine, Hydrogen peroxide, phosphorus pentoxide, 6-trinitrotoluene. Sulfur oxides. Aluminum, Zinc, gelatin, nitromethane, leather, flammable liquids, organic halogens. Oxidizing agents.

**Hazardous Decomposition or Byproducts:** Carbon monoxide, Carbon dioxide, Toxic fumes of sodium oxide, oxides of phosphorus, Other decomposition products: No data available. In the event of fire: see section 5.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

**SAFETY DATA SHEET****OPTIMA ENCAPSULATED DETERGENT****11. Toxicological Information**

**Toxicological Information:** Epidemiology: No information found.  
 Teratogenicity: Teratogenic effects have occurred in experimental animals.  
 Reproductive Effects: Neurotoxicity: Teratogenicity: No information available. See actual entry in RTECS for complete information.  
 Germ cell mutagenicity. No data available.  
 Reproductive toxicity. Specific target organ toxicity - single exposure: May cause respiratory irritation.  
 Specific target organ toxicity - repeated exposure: Aspiration hazard:

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.
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	n.a.	n.a.	n.a.	n.a.

**12. Ecological Information**

**General Ecological Information:** Environmental: Not regulated under U.S. Department of Transportation regulations (29 CFR)  
 Physical: No information available.  
 Other: Do not empty into drains.

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**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.  
 RCRA P-Series: None listed.  
 RCRA U-Series: None listed.  
 Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**14. Transport Information****LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide)

**DOT Hazard Class:** 8 CORROSIVE

**UN/NA Number:** UN3262

**Packing Group:** II



## SAFETY DATA SHEET

## OPTIMA ENCAPSULATED DETERGENT

## 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
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	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
51580-86-0	1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3-dichloro-, sodium salt {Dichloroisocyanuric acid sodium salt dihydrate}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

## 16. Other Information

**Revision Date:** 07/13/2022  
**Preparer Name:** Regulatory Affairs

**Hazard Rating System:**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>2</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.