

# SAFETY DATA SHEET



Date issued : 02/18/2016  
SDS number : Yard Dog 421  
Date revised : 07/17/2024  
Revision number : 4

## YARD DOG 421

### 1. Identification

**Product code:** 5109  
**Product identifier:** YARD DOG 421  
**Relevant identified uses:** Heavy Duty Caustic Cleaner

#### Manufacturer / Supplier

John-Henry Enterprises, Inc.  
800 Central Ave.  
Jefferson, LA 70121

**Emergency contact:** H. Zeller

**Emergency Phone:** 504-888-8989

**Web:** www.john-henry.com

#### Emergency telephone number (24 hour)

US/Canada: 800-535-5053

### 2. Hazard identification

#### Classification of the substance or mixture

##### Health hazards:

Eye Damage, Category 1

Skin Corrosion/Irritation, Category 1C

##### Label elements



Severe

Irritant/Corrosive



Irritant

##### Signal word: DANGER

##### Hazard statement(s)

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

H290: May be corrosive to metals.

##### Precautionary statement(s)

##### Supplemental label elements:

P102: Keep out of reach of children.

P103: Read carefully and follow all instructions.

##### Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

##### Response:

6156HX6P: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (See First Aid Section for more details)

0505GPKQ: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (See First Aid Section for more detailed information).

##### Storage:

75990X3S: Keep only in original container. Store in a cool, well-ventilated space. Keep container tightly closed.

##### Potential health effects

**Eye:** Can cause serious eye irritation, burns, and damage

**Skin:** Contact can cause severe skin irritation and possibly burns.

**Ingestion:** Causes severe irritation and possibly burns to mouth, throat, esophagus, and gastrointestinal system. May

cause gastrointestinal discomfort, including nausea, vomiting, diarrhea, etc

**Inhalation:** Mists or sprays can be severely irritating to eyes and respiratory tract.

### 3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Organic chelate	< 2	Proprietary
Sodium Hydroxide	< 5 - 7.5	1310-73-2
Glycol ether	10 - 12	Proprietary

### 4. First-aid measures

**Eye:** Gently hold eyelids open and immediately flush eyes with water for at least 15 minutes or until pain eases. Remove contact lenses if possible. Cover eyes loosely with sterile dressing and seek medical attention, especially if there are visible burns or damage to or around eyes.

**Skin:** Remove contaminated clothing and footwear. Flush off with copious amounts of running water. Seek medical attention for burns or if irritation persists or worsens.

**Ingestion:** Get immediate emergency medical attention (Call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give water, milk, or dilute citrus juice unless unconscious or convulsing. Keep patient warm, quiet, and comfortable and treat for shock.

**Inhalation:** If affected by spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen.

#### Most important symptoms and effects, both acute and delayed

**Eye:** Severe irritation or pain, blurring and loss of vision, burns and/or permanent damage.

**Skin:** Prolonged exposure can cause moderate to severe irritation and possibly burns.

**Ingestion:** Causes severe irritation and burns to mouth, throat, esophagus, and GI tract. Can cause gastrointestinal discomfort, including nausea, vomiting, and diarrhea.

**Inhalation:** Spray or mists can irritate eyes, nose, throat, and respiratory tract.

**Indication of immediate medical attention and special treatment needed, if necessary:** Treat symptomatically. If burns are present, treat for thermal burns.

### 5. Fire-fighting measures

**Flammable class:** Not Applicable - Water based product with no flashpoint.

**Suitable extinguishing media:** Not applicable - water based product. After water has evaporated, use water (fog or spray) or chemical foam on burning solids.

**Hazardous combustion products:** After water has evaporated, burning solids will produce oxides of carbon, nitrogen, and sulfur, organosulfur, organonitrogen, and hydrocarbon residues and acrid fumes

**Explosion hazards:** Containers can burst if exposed to flames or high temperatures.

**Fire fighting procedures:** Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool intact containers.

### 6. Accidental release measures

**Small spill:** Wear recommended PPE. Contain and absorb spilled material. Dispose of contaminated absorbant properly. Wash spill area with water.

**Large spill:** Wear appropriate PPE. Remove uninvolved personnel from area. Stop flow. Contain spill and keep from entering sewer or surface waterways. Collect spill into suitable, properly labeled containers for use or disposal. Rinse spill area with water.

### 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes and prolonged contact with skin. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

**Conditions for safe storage:** Store in original containers in well ventilated area. Keep containers closed when not in use.

### 8. Exposure controls/personal protection

## Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m <sup>3</sup>
Sodium Hydroxide	OSHA PEL	TWA		2
Glycol ether	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97

**Appropriate engineering controls:** Maintain sufficient ventilation in storage and use areas to prevent the accumulation of product vapors, fumes, spray, or mists. Provide local exhaust for enclosed areas.

### Individual protection measures, such as personal protective equipment

**Eye / face protection:** Wear safety glasses or goggles and face shield (recommended) when handling.

**Skin protection - hand protection:** Wear rubber, latex, or other chemical resistant gauntlet gloves.

**Respiratory protection:** Use with adequate ventilation. Wear a NIOSH approved air purifying respirator where vapors, mists or spray are excessive or exceed exposure limits.

**Occupational hygiene practices:** Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

**Other use precautions:** Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

## 9. Physical and chemical properties

**Appearance:** clear, colorless liquid

**Odor:** pleasant, characteristic ether odor

**pH:** > 13.5

**Notes:** (5% in water)

**Freezing point:** less than 32 deg F (0 deg C)

**Initial boiling point and boiling range:** 210 - 215 deg F

**Flash point:** Not applicable - water based product

**Evaporation rate (n-butyl acetate = 1):** Same as water (approximately)

**Explosion limit / flammability limit notes:** Not Applicable

**Vapor pressure:** Same as water (approximately)

**Relative vapor density:** Heavier than air

**Relative density:** 1.13 to 1.150

**Solubility:** Complete in all proportions.

**Viscosity:** Same as water (approximately)

**Percent volatiles:** 82 - 88% (w/w)

**VOC content:** 1 to 11

## 10. Stability and reactivity

**Reactivity:** Yes

**Dangerous polymerization:** No

**Possibility of hazardous reactions:** Reacts with metals such as aluminum or zinc (releases hydrogen, a flammable gas). Reacts vigorously with concentrated acids (generating heat and steam)

**Hazardous decomposition products:** Oxides of carbon, nitrogen, and sulfur, organosulfur, organonitrogen, and hydrocarbon residues

**Incompatible materials:** Concentrated acids, oxidizing agents, metals such as aluminum or zinc, ammonia and amines

## 11. Toxicological information

### Carcinogenicity

Chemical name	General Toxicity
Glycol ether	Confirmed animal carcinogen with unknown relevance to humans - Group A3

## 12. Ecological information

**Environmental data:** No data

## 13. Disposal considerations

**Disposal methods:** Unused or undiluted product constitutes a hazardous waste. Follow all appropriate local, state, and Federal disposal regulations. Surfactants and other organic components are biodegradable. Collect and neutralize spent solutions and discharge to a waste water treatment facility.

**For large spills:** See Section 6

**Empty container:** Rinse container thoroughly with water and recycle.

**RCRA/EPA waste information:** Unused or undiluted product would constitute an RCRA regulated hazardous waste due to corrosivity (CORROSIVE WASTE - D002, pH equal to or greater than 12.5)

## 14. Transport information

### USA Department of Transport Regulations (DOT)

**UN proper shipping name:** UN1760, Corrosive Liquid, n.o.s. (contains Sodium Hydroxide), 8, II

**Reportable quantity (rq) under CERCLA:** 14490

**Placards:** Corrosive

**Hazard label:** Corrosive

### IMO / IMDG - International

**UN proper shipping name:** UN1824, SODIUM HYDROXIDE SOLUTION, N.O.S., 8, PG II

**UN number:** UN1824

**Packing group, if applicable:** II

**Placards:** Corrosive

**Hazard label:** Corrosive

## 15. Regulatory information

### UNITED STATES

#### Dot label symbol and hazard classification



Corrosive

#### SARA Section 311/312 Hazard Categories

**311/312 Health hazards:** Corrosive

**313 reportable ingredients:** Sodium Hydroxide

#### CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Organic chelate	< 2	5,000
Sodium Hydroxide	< 5 - 7.5	1,000

**CERCLA rq:** greater than 10000 lbs (as supplied)

#### EPA

**EPA rq ingredient:** Sodium Hydroxide

**EPA rq product:** greater than 10000 lbs (as supplied)

#### TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Organic chelate	Proprietary
Sodium Hydroxide	1310-73-2
Glycol ether	Proprietary

**TSCA Status:** All ingredients are included on the TSCA Inventory or are exempt

**California Proposition 65:** Contains no substances known to the State of California to cause cancer in quantities above the de minimus level.

## 16. Other information

**Reason for issue:** New Address

**Approved by:** H. Zeller

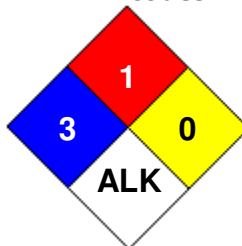
**Prepared by:** CSCC    **Date revised:** 07/17/2024

**Revision summary:** This SDS replaces the 02/14/2022 SDS. Revised: **Section 1:** Reason for issue. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

### HMIS rating

Health		3
Flammability		1
Physical hazard		0
Personal protection	X	

### NFPA codes



**General statements:** Amounts given herein (other than for regulatory purposes) are typical and do not represent a specification. Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

**Manufacturer disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for its accuracy and/or completeness. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown health or physical hazards and should be used with caution. Certain hazards are described herein, but no guarantee is made that these are the only hazards associated with the material that exist.