

SAFETY DATA SHEET



Date issued : 07/11/2024
SDS number : 5120
Date revised : 07/17/2024
Revision number : 1

VULCAN HF

1. Identification

Product code: 5120
Product identifier: VULCAN HF
Product formulation name: 5120
Generic name: Vulcan HF
Relevant identified uses: Heavy Duty Water Based Cleaner/Degreaser

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 Corrosion, Category 1A
Skin Corrosion/Irritation, Category 2A

Environmental hazards:

Acute Hazards to the Aquatic Environment, Category 3

Physical hazards:

Corrosive to Metals, Category 1A

Label elements



Severe

Irritant/Corrosive



Irritant

Hazard statement(s)

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H302: Harmful if swallowed.
H302 + H332: Harmful if swallowed or if inhaled.

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.
1193JFS0: Avoid contact with acids and ammonia
P273: Avoid release to the environment.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P363: Wash contaminated clothing before reuse.

Storage:

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

VULCAN HF

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Sodium Hydroxide	< 7	1310-73-2
Organic chelate	< 2	Proprietary
Glycol ether	8 - 10	Proprietary
Silicic Acid (h ₂ sio ₃), Disodium Salt	2 - 4	Proprietary
Amphoteric Surfactant	< 1	Proprietary
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 78	Mixture

4. First-aid measures

Eye: Treat eye contact and a medical emergency (call 911). 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 IMMEDIATE MEDICAL ATTENTION.

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 vapors, spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen. Give oxygen if breathing is difficult and seek prompt medical attention.

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: Causes moderate to severe irritation and possibly burns.

Ingestion: Harmful or fatal if swallowed. Can cause irritation, gastric upset, burns and damage (corrosion) to mouth, throat, esophagus and gastrointestinal tract.

Inhalation: Vapors, spray or mists can irritate eyes, nose, throat, and respiratory tract. Vapors can cause dizziness, drowsiness, nausea, headache, drunkenness, vomiting, unconsciousness, and other anesthetic effects.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically. Treat for thermal burns. Take precautions to prevent exposure to emergency and medical personnel to material.

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: 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

VULCAN HF**Exposure controls**

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
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 chemically resistant outer garments, impermeable boots and gloves when handling.

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

Chemical name	Flash Point (°C)	Specific Gravity
Amphoteric Surfactant	147	1.03

Appearance: clear, pale amber liquid

Odor: pleasant, characteristic ether odor

pH: 13.5

Notes: as made

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

Initial boiling point and boiling range: greater than 212 deg F

Flash point: Not applicable - water based product

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

Vapor pressure: Same as water (approximately)

Relative vapor density: Same as water (approximately)

Relative density: 1.06 to 1.08

Solubility: Complete in all proportions.

Viscosity: Same as water (approximately)

Percent volatiles: 80 - 85% (w/w)

VOC content: 9

10. Stability and reactivity

Reactivity: None

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). Reacts with ammonia and amines and forms toxic fumes.

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**Acute toxicity**

Notes: No toxicity data available for product

VULCAN HF**Carcinogenicity**

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

12. Ecological information**Environmental data:** No data**Comments:** This product could be expected to produce significant ecotoxicity upon exposure to aquatic systems and organisms.**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, III**Reportable quantity (rq) under CERCLA:** greater than 10000 lbs (as supplied)**Placards:** Corrosive**Hazard label:** Corrosive**IMO / IMDG - International****UN proper shipping name:** UN1824, SODIUM HYDROXIDE SOLUTION, N.O.S., 8, PG II**Transport hazard class(es):** 8**EmS:** F-A, S-B**Placards:** Corrosive**Hazard label:** Corrosive**15. Regulatory information****UNITED STATES****SARA Section 311/312 Hazard Categories****311/312 Health hazards:** Corrosive**313 reportable ingredients:** Sodium Hydroxide**EPCRA Section 313 Toxic Chemicals**

Chemical name	% w/w	CAS No.
Amphoteric Surfactant	< 1	Proprietary

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Sodium Hydroxide	< 7	1,000
Organic chelate	< 2	5,000

CERCLA rq: greater than 10000 lbs (as supplied)**EPA****EPA rq ingredient:** Sodium Hydroxide**EPA rq product:** greater than 10000 lbs (as supplied)

VULCAN HF**TSCA (The Toxic Substances Control Act)**

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

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

California Proposition 65: Contains a substances or substances known to the State of California to cause cancer

RCRA status: Regulated under RCRA (D002 - Corrosive)

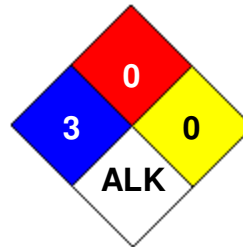
16. Other information

Date revised: 07/17/2024

Revision summary: This SDS replaces the 07/12/2024 SDS. Revised: **Section 1:** Emergency telephone number (24 hour), Product description. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating

Health	<input type="checkbox"/>	3
Flammability		0
Physical hazard		0
Personal protection	<input checked="" type="checkbox"/>	

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.