

SAFETY DATA SHEET



Date issued : 06/15/2015
SDS number : 5421
Date revised : 07/17/2024
Revision number : 4

VAPO-SORB

1. Identification

Product code: 5421
Product identifier: VAPO-SORB
Relevant identified uses: Vapor Scrubber Solution

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 2

Skin Corrosion/Irritation, Category 2

Physical hazards:

Corrosive to Metals, Category 4

Label elements

CORROSIVE: Causes severe irritation and can cause burns and permanent damage to eyes. Causes moderate to severe irritation and possibly burns to skin. Mists and spray can irritate eyes, nose, throat, and respiratory system. Ingestion can cause severe irritation, burns and tissue damage to mouth, throat, esophagus, and stomach. May be harmful or fatal if swallowed.



Severe
Irritant/Corrosive

Signal word: DANGER

Hazard statement(s)

H314: Causes severe skin burns and eye damage.

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.

P363: Wash contaminated clothing before reuse.

Storage:

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

Emergency overview

Immediate concerns: Causes severe irritation and burns to skin. Causes severe irritation, burns, and damage to eyes. Mists and vapors can cause irritation to eyes, nose, throat, and respiratory tract. Ingestion can damage mouth, throat, and other tissues and may be fatal.

Potential health effects

Eye: Corrosive to the eyes and may cause severe damage including tissue destruction and/or blindness.

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

Ingestion: Causes irritation, burns, and damage to mouth, throat, esophagus, and stomach. May be fatal if swallowed.

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

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Phosphoric Acid	< 20	7664-38-2
Glycol ether	< 2	Proprietary
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 75	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 medical attention (call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give patient water and milk of magnesia or other antacid tablets unless unconscious or convulsing. Keep patient warm and comfortable. 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: Spray or mists can severely irritate eyes, nose, throat, and respiratory tract causing coughing, sneezing, difficulty breathing, etc.

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.

General hazard: Boiling product can release irritating, acidic fumes.

Suitable extinguishing media: Not applicable - not combustible

Hazardous combustion products: Acidic 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 and ventilate the area. Stop and contain flow and keep spilled material from entering sewer or surface waterways. Collect spilled material and store in suitable, properly labeled containers for use or disposal. Rinse spill area thoroughly with water or a dilute alkaline solution.

Environmental precautions

Water spill: Do not discharge to or allow to enter surface waterways, drains, or public sewers

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 away from strong alkalies or oxidizing materials. Keep containers tightly closed when not in use.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
	Occupational exposure limit values			
Chemical name	Type		ppm	mg/m ³
Phosphoric Acid	OSHA PEL	TWA		1
	ACGIH TLV	TWA		1
		STEL		3
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 and boots

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

Skin protection - other: Wear chemically resistant full length apron and impermeable boots when handling.

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: mild, ether-like

pH: < 2.0

Notes: (5% in water)

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

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

Flash point: > (200°F)

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: 1.1 to 1.12

Solubility: Complete in all proportions.

Percent volatiles: 50 - 60% (w/w)

VOC content: ~ 1 percent (w/w)

10. Stability and reactivity

Reactivity: No

Dangerous polymerization: No

Possibility of hazardous reactions: Reacts with metals (releases hydrogen, a flammable gas). Reacts vigorously with concentrated alkalies to generate acidic steam.

Incompatible materials: Strong alkalies (bases), chlorine bleach, oxidizing and reducing agents, metals such as zinc or magnesium (releases hydrogen gas)

11. Toxicological information

Acute toxicity

Notes: No toxicity data available for product

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: Because of the low pH of this product, it would 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: Triple 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 less than 2.0)

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: UN1760, Corrosive Liquid, N.O.S. (contains phosphoric acid), 8, III

IMO / IMDG - International

UN proper shipping name: UN1805, PHOSPHORIC ACID SOLUTION, 8, III

EmS: F-A, S-B

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Acute health hazard (eye and skin irritation/corrosion)

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Phosphoric Acid	< 20	5,000

CERCLA rq: greater than 10000 lbs (as supplied)

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Phosphoric Acid	7664-38-2
Glycol ether	Proprietary

TSCA Status: All other 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, birth defects, or reproductive harm.

16. Other information

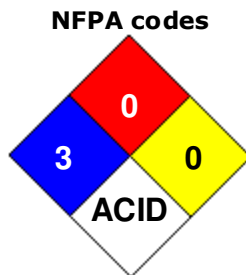
Reason for issue: New Address

Approved by: H. Zeller

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

Revision summary: This SDS replaces the 02/11/2022 SDS. Revised: **Section 1:** Reason for issue. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating		
Health	<input type="text"/>	3
Flammability	<input type="text"/>	0
Physical hazard	<input type="text"/>	0
Personal protection	<input type="text"/>	X



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.