SAFETY DATA SHEET

Date issued : 01/31/2016
SDS number : 5401A
Date revised : 07/17/2024
Revision number : 2

HEAVY DUTY SCALE AWAY

1. Identification

Product code: 5401A
Product identifier: HEAVY DUTY SCALE AWAY
Relevant identified uses: Concentrated Rust and Water Scale Remover

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 2A

Physical hazards:

Corrosive to Metals, Category 4

Label elements


Irritant


Severe Irritant/Corrosive

Signal word: DANGER

Hazard statement(s)

H319: Causes serious eye irritation.
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.
9913FBB7: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

Storage:

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

Disposal:

P501: Dispose of contents/container to ...

Potential health effects

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

Skin: Prolonged contact may cause severe skin irritation and possible burns.

Ingestion: Causes severe irritation and possibly burns to mouth, throat, esophagus, and gastrointestinal system. May cause gastrointestinal disconfort, including nausea, vomiting, diarrhea, etc

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	45 - 50	7664-38-2
Glycol ether	2 - 4	Proprietary
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 45	Mixture

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. 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 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 antiacid 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, tearing, redness, blurring and/or temporary or permanent loss of vision. May cause burns to and around eyes.

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 severely irritate eyes, nose, throat, and respiratory tract causing coughing, sneezing, difficulty breathing, etc. Inhalation can damage tissues of nose, throat, and upper respiratory system.

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 and phosphorus, organophosphorus 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 detergent solution.

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. Avoid prolonged exposure to mists and sprays. 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/m³**
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 rain suit if there is a possibility of exposure to spray or heavy mists

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

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: No flashpoint

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: Same as water (approximately)

Relative density: 1.26 to 1.28 at 25°C

Solubility: Complete in all proportions.

Percent volatiles: approximately 50%

VOC content: < 3

10. Stability and reactivity

Reactivity: Reactive with alkaline materials. Reacts with metals.

Dangerous polymerization: Will not occur

Chemical stability: Stable under recommended storage conditions

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

Hazardous decomposition products: Phosphine, oxides of carbon and phosphorus, organophosphorus and hydrocarbon residues

Incompatible materials: Strong alkalies (bases), chlorine bleach, oxidizing and reducing agents, metals such as zinc or mgnesium (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 available data for product

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 hazard class: D002 - Corrosive (pH less than 2.5)

14. Transport information

USA Department of Transport Regulations (DOT)

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

Reportable quantity (rq) under CERCLA: greater than 10000 lbs (as supplied)

IMO / IMDG - International

UN proper shipping name: UN1760, CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID SOLUTION), 8, II

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), Reactivity

313 reportable ingredients: Phosphoric Acid

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Phosphoric Acid	45 - 50	5,000

CERCLA rq: greater than 10000 lbs (as supplied)

EPA

EPA rq ingredient: Phosphoric Acid

EPA rq product: 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

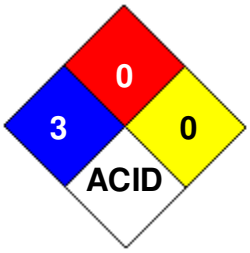
Prepared by: CSCC **Date revised:** 07/17/2024

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	3
Flammability	0
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 lt 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.