

SAFETY DATA SHEET



Date issued : 04/14/2015
SDS number : Liqui-Fire RX
Date revised : 07/17/2024
Revision number : 4

LIQUI-FIRE RX

1. Identification

Product code: 5614
Product identifier: LIQUI-FIRE RX
Relevant identified uses: Pre-Solv for Tank Washing

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 Irritation, Category 2A
Skin Irritation, Category 2
Aspiration Hazard, Category 2
Respiratory Tract Irritation, Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements

FLAMMABLE Liquid and Vapor. Harmful if inhaled and may cause injury to lungs and respiratory system. Vapors can cause nervous system depression. Aspiration hazard if swallowed. Irritating to skin and eyes.



Irritant



Flammable
Liquid

Signal word: WARNING

Hazard statement(s)

H333: May be harmful if inhaled.
H304: May be fatal if swallowed and enters airways.
H336: May cause drowsiness or dizziness.

Precautionary statement(s)

Supplemental label elements:

P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.

Prevention:

P262: Do not get in eyes, on skin, or on clothing.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P270: Do not eat, drink or smoke when using this product.
P331: Do NOT induce vomiting.
P240: Ground and bond container and receiving equipment.
P284: [In case of inadequate ventilation] wear respiratory protection.
9913FBB7: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

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)

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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).

P362+P364: Take off contaminated clothing and wash it before reuse.

2647OCLL: IF SWALLOWED: Immediately call a POISON CENTER, doctor, or other qualified medical personnel. (See First Aid Section for more information) Rinse mouth. Do NOT induce vomiting.

9001RUSB: In case of fire: Stop leak if safe to do so. Use dry chemical, carbon dioxide, or alcohol-resistant foam to extinguish.

Storage:

80428HEF: Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Potential health effects

Eye: Moderately to severely irritating and may cause temporary blurring of vision.

Skin: Prolonged or repeated exposure may cause dryness, redness, rash, irritation, sensitization and/or dermatitis.

Ingestion: May cause gastrointestinal discomfort, including nausea, vomiting, diarrhea, etc. Aspiration of vomited material may cause damage to lungs and chemical pneumonitis

Inhalation: Mists, sprays, or vapor can be irritating to eyes and respiratory tract. Vapors and mists can cause irritation, dizziness, drowsiness, headache, and other central nervous system depression

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Heavy aromatic naptha	< 50	Proprietary
Organic Ester	< 30	Proprietary
Glycol ether	< 30	Proprietary

4. First-aid measures

Eye: Immediately flush eyes with plenty of water for 15 minutes or until discomfort eases. Get medical attention if irritation persists.

Skin: Remove contaminated clothing and footwear. Wash with soap and water. Get medical attention if irritation or rash develops or persists or if symptoms of CNS depression develop or occur.

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 or milk 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. If breathing is difficult, give oxygen and get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Eye: Moderate to severe irritation, including copious tearing, stinging, burning, temporary blurring of vision

Skin: Prolonged or repeated contact may produce mild irritation, including redness, burning or itching, rash, etc. Product can be absorbed by skin and product dizziness, nausea, vomiting, and other signs of CNS depression

Ingestion: Harmful or fatal if swallowed. Causes irritation to mouth, throat, esophagus, and GI tract. Can cause gastrointestinal discomfort, including nausea, vomiting, and diarrhea. Aspiration of vomited material can cause lung damage and pneumonia.

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. Contains an aromatic hydrocarbon solvent. Aspiration of vomited material can cause lung damage and chemical pneumonia. Monitor patient for up to 48 hours for breathing difficulty if spontaneous vomiting has occurred after ingestion.

5. Fire-fighting measures

Flammable class: GHS Category - 2; US DOT - Flammable Liquid; OSHA - Combustible Liquid

Suitable extinguishing media: Use alcohol foam, carbon dioxide, or dry chemical when fighting fires involving this material. DO NOT USE water spray or stream (may cause fire to spread.)

Hazardous combustion products: Oxides of carbon and hydrocarbon residues.

Explosion hazards: Containers can burst if exposed to flames or high temperatures. Vapors are heavier than air and can propagate to remote areas and be ignited.

Fire fighting procedures: Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers or disperse vapors. Do not use water stream or spray to fight fires

6. Accidental release measures

Small spill: Wear recommended PPE. Ventilate the area and remove uninvolved personnel. Extinguish nearby sources of ignition. Contain and absorb spilled material. Dispose of contaminated absorbant properly. Wash spill area with soap and water.

Large spill: Wear appropriate PPE. Stop flow. Ventilate the area and extinguish nearby sources of ignition. Remove uninvolved personnel from area. Contain spill and keep from entering sewer or surface waterways. Collect spill into suitable, properly labeled containers for use or disposal. Wash spill area with water or detergent solution.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Read and understand label and SDS before handling any chemical. Use only in well ventilated areas away from ignition sources. Ground and bond containers when pouring or transferring to another container. Open drums slowly to release accumulated pressure.

Conditions for safe storage: Store in original containers in a cool, well ventilated area away from heat, sparks, flame or other sources of ignition. Keep containers tightly closed when not in use.

8. Exposure controls/personal protection

Exposure controls

Chemical name	Control parameters			
	Occupational exposure limit values			
	Type		ppm	mg/m ³
Organic Ester	Supplier OEL	TWA	50 [1]	[1]
Glycol ether	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97

Footnotes:
1. Workplace Environmental Exposure Level

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: Avoid eye contact. Wear safety glasses or goggles

Skin protection - hand protection: Avoid prolonged or repeated contact. Wear rubber, latex, or other chemical resistant 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: moderately strong, modified, aromatic hydrocarbon

pH: not applicable - not water soluble

Freezing point: to (400°F)

Initial boiling point and boiling range: (300°F) to (400°F)

Flash point: (132°F) TCC

Evaporation rate (n-butyl acetate = 1): Not determined

Explosion limit / flammability limit notes: LEL (aromatic naphtha) 0.58%; UEL (organic ester) - 13%

Vapor pressure: Not determined

Relative vapor density: Heavier than air

Relative density: 0.91 to 0.93

Solubility: negligible

Auto-ignition temperature: Not determined

Viscosity: Not determined

Percent volatiles: 100

VOC content: 1 percent (v/v)

10. Stability and reactivity

Reactivity: No

Dangerous polymerization: No

Chemical stability: Stable

Hazardous decomposition products: Oxides of carbon and hydrocarbon residues, acrid fumes

Incompatible materials: oxidizing agents.

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 available.

13. Disposal considerations

Disposal methods: Ship to a solvent reclamation facility or chemical incinerator. Liquid wastes cannot be landfilled. Unused product is classified as a hazardous waste. Follow all pertinent local, state, and Federal disposal regulations.

For large spills: See Section 6

Empty container: Empty containers may contain product vapors. Do not cut, weld, burn, or grind. Return empty containers for recycling.

RCRA/EPA waste information: Unused or undiluted product would constitute an RCRA regulated hazardous waste due to Ignitability (Hazardous Waste Code: D001; Flashpoint less than 140 deg F)

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: NA1993, Combustible Liquid, n.o.s. (contains petroleum distillates and ethers), II

IMO / IMDG - International

UN proper shipping name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (NAPHTHALENE), 9, PG II, MARINE POLLUTANT

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Flammable liquid and vapor; Acute health hazard (eye and skin irritation); Acute inhalation hazard

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Heavy aromatic naptha	Proprietary
Organic Ester	Proprietary
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, 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 10/17/2022 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="checkbox"/>	2
Flammability	<input type="checkbox"/>	2
Physical hazard	<input type="checkbox"/>	0
Personal protection	<input checked="" type="checkbox"/>	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.