

SAFETY DATA SHEET



Date issued : 07/04/2015
SDS number : 5435
Date revised : 07/17/2024
Revision number : 4

B-5955

1. Identification

Product code: 5435
Product identifier: B-5955
Relevant identified uses: Boiler Treatment

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

Label elements

Causes severe irritation and possibly burns to eyes. Causes moderate to severe irritation and possibly burns to skin. Mists and spray can irritate eyes, nose, throat, and respiratory system. May be harmful if swallowed.



Severe



Irritant

Irritant/Corrosive

Signal word: WARNING

Hazard statement(s)

H335: May cause respiratory irritation.

H319: Causes serious eye irritation.

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

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.

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

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.

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

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.

Emergency overview

Immediate concerns: Causes moderate to severe irritation and possibly burns to eyes. Prolonged exposure may irritate skin. Mists or sprays may irritate eyes, nose, and throat.

Potential health effects

Eye: Extremely irritating to the eyes and may cause severe damage including blindness.

Skin: Prolonged contact can cause severe skin irritation and possible 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 moderately to severely irritating to eyes and respiratory tract.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Caustic potash	1 - 2	Proprietary
Organic amine	7.5 - 10	Proprietary
Other ingredients are not hazardous or are present at levels that do not present a significant hazard.	> 88	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. 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. Wash with soap and water. Get medical attention if irritation develops or persists.

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

Most important symptoms and effects, both acute and delayed

Eye: Severe irritation or pain, tearing, redness, blurring and/or temporary 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 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 phosphorus, organonitrogen, organophosphorus, and hydrocarbon residues and acid 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. Ventilate the area and remove uninvolved personnel. Contain and absorb spilled material. Dispose of contaminated absorbant properly. Wash spill area with water.

Large spill: Wear appropriate PPE. Ventilate the area and 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: Read and understand product label and SDS before handling any chemical. Use in well

ventilated areas. Always wear recommended personal protective equipment. Follow label 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

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, pale amber liquid

Odor: amine

pH: 12.5 to 13.5

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) TCC

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: 82 - 88% (w/w)

VOC content: ~ 1 percent (w/w)

10. Stability and reactivity

Reactivity: No

Dangerous polymerization: No

Possibility of hazardous reactions: May react with soft metals such as zinc or magnesium (releases hydrogen, a flammable gas). Reacts with concentrated acids (generating heat and steam and oxides of sulfur).

Hazardous decomposition products: Oxides of carbon, nitrogen, and phosphorus, organophosphorus, 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

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: 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 greater than 12.5)

14. Transport information

USA Department of Transport Regulations (DOT)

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

IMO / IMDG - International

UN proper shipping name: UN1760, CORROSIVE LIQUID, N.O.S. (contains diethylaminoethanol), 8, III

15. Regulatory information

UNITED STATES

Dot label symbol and hazard classification



Corrosive

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
Caustic potash	1 - 2	1,000

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Caustic potash	Proprietary
Organic amine	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.

16. Other information

Reason for issue: New Address

Approved by: H. Zeller

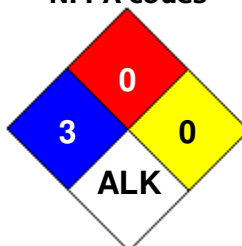
Prepared by: CSCC **Date revised:** 07/17/2024

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 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.

