

NFPA	GHS Pictogram	Personal Protective Equipment
		

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	Product form	Product code
BoilerPro 926	Mixture	BP-926

1.2. Relevant identified uses of the substance or mixture and uses advised against: Closed recirculating loop systems scale and corrosion inhibitor. Not for use where incidental food contact may occur.

1.3. Details of the supplier of the safety data sheet

Rhomar HTF LLC, dba Rhomar Water
 2103 E. Rockhurst St., Springfield, MO 65802 USA
 T 417-862-2600; F 417-862-6410
 Email: TalkToUs@rhomarwater.com

1.4. Emergency telephone number
CHEM TEL: 1-800-255-3924

SECTION 2: HAZARDS IDENTIFICATION

GHS Pictogram:



Signal Word: **Warning!**

Hazard Statements:

- H315:** Causes skin irritation (*Skin corrosion/irritation: Category 2*).
- H319:** Causes serious eye irritation (*Serious eye damage/eye irritation: Category 2A*).
- H302:** Harmful if swallowed (*Acute toxicity/Inhalation: Category 4*).
- H402:** Harmful to aquatic life (*Hazardous to aquatic life/Acute toxicity: Category 3*).

Precautionary Statements:

- P270** : Do not eat, drink or smoke when using this product.
- P264** : Wash hands thoroughly after handling
- P102** : Keep out of reach of children.
- P280** : Wear protective gloves/eye protection/face protection.
- P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302 + P352 + P362:** IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
- P301 + P330 + P331 + P312:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you fell unwell.
- P403 + P233:** Store in a well ventilated place. Keep the container tightly closed.
- P273** : Avoid release to the environment.
- P501** : Dispose of products in accordance with federal, state and local laws.

Reference: GHS Purple Book-Annex 3

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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Substance	Common Name/Synonym	CAS #	Amount, %
Sodium tolytriazole	N/A	64665-57-2	4.0 - 7.0
Tertiary amine*	N/A	Proprietary*	2.0 – 4.0
Dispersants*	N/A	Proprietary*	5.0 – 8.0
Sodium molybdate dihydrate	N/A	10102-40-6	<1
Green dye	Food Colorant	N/A	<0.01
Demineralized water	N/A	7732-18-5	Balance

* The specific identities of the amine and dispersant are a Rhomar Water trade secret and is thus withheld.

SECTION 4: FIRST AID MEASURES

- 4.1. General advice:** If there exists potential for exposure, refer to **Section 8** for personal protective equipment.
- 4.2. Effects of overexposure:**
Acute overexposure: May cause corrosion to all body tissues.
Chronic overexposure: Repeated contact may cause dermatitis or tissue damage. Harmful if swallowed.
- 4.3. Description of first aid measures:**
Eye contact : Immediately flush thoroughly with plenty of water while lifting the lower and upper eyelids occasionally. Seek medical attention.
Skin contact : Wash off with soap and plenty of water while removing contaminated clothes and shoes. Rinse thoroughly with water. Seek medical attention. Wash contaminated clothing before reuse.
Inhalation : Move to fresh air. If breathing stops, administer artificial respiration. Immediately get medical attention if any symptoms exist.
Ingestion : Wash mouth with water. If person is conscious, give them large quantities of drinking water. DO NOT INDUCE VOMITING. Get immediate medical attention. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
- 4.4. Note to Physician:** Contains a tertiary amine and alkaline corrosion inhibitors. Treat as symptoms may be.

SECTION 5: FIREFIGHTING MEASURES

NFPA

Flammability 0
Health 2



Stability and reactivity 0
Physical hazard COR

- 5.1. Suitable extinguishing media:** Non-combustible. Use extinguishing media appropriate for the surrounding fire.
- 5.2. Unsuitable extinguishing media:** Not flammable. Do not dry chemicals containing ammonium phosphate.
- 5.3. Special hazards arising from the substance or mixture:** Material does not burn.
- 5.4. Advise for firefighters:** Wear self-contained breathing apparatus (SCBA) which are NIOSH/MSHA (approved or equivalent) and full protective gear for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation. Avoid breathing vapors or mist. Use standard industrial precautionary practices. Use safety glasses and impervious gloves as a minimum for personal protection. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION for more information.
- 6.2. Environmental precautions:** Prevent spills from entering sewers, waterways, into soil and groundwater systems. Prevent further leakage if safe to do so. See Section 12, ECOLOGICAL INFORMATION for additional information.
- 6.3. Methods and material for containment and cleaning:** Cleanup personnel must have proper protective equipment. Dam up the area of accidental release to contain large spills. Mechanically collect spillage in suitable containers for disposal. For small spills, adsorb with inert adsorbent material. Dispose material in accordance with federal, state and local laws. For additional information, see Section 13, DISPOSAL CONSIDERATIONS.
- 6.4. Emergency procedures:** Contain spill. Dispose in accordance with all federal, state and local authorities.
- 6.5. Neutralizing Chemicals:** May be diluted with water.

SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:** Observe standard industrial hygiene practices. Proper personal protective equipment required while handling this product. Avoid contact with the eyes and prolonged or repeated skin contact. Avoid breathing mists or vapors. See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.
- 7.2. Conditions for safe storage, including any incompatibilities:** Store in original container. Keep storage container tightly closed in a well ventilated and dry place. Do not expose the product to excessive heat. Keep out of reach of children. Protect from physical damage. Avoid storing BoilerPro 926 with mineral acids, strong oxidizers, metals such as aluminium, zinc and tin, and open flames. See Section 10, STABILITY AND REACTIVITY for more information.
- 7.3. Specific end use(s):** Apart from the uses mentioned in Section 1.2, no other specific uses are prescribed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	Type of listing	Regulation	Value
Sodium tolytriazole	ACGIH		No data available or not established
	OSHA		No data available or not established

- 8.1. Exposure controls**
- Eye/face protection** : Wear dust and splash proof goggles or safety glasses with side shields as described by OSHA's eye and face protection regulation found in 29 CFR 1910.133
- Skin/body protection** : Use gloves chemically resistant to this product such as those made from butyl or nitrile rubber when prolonged contact with material could occur. Wear impervious clothing.
- Respiratory protection** : Wear suitable personal respiratory protection and protective suit in case of mist, aerosol or spray exposure.
- 8.2. Engineering controls** : Adequate ventilation should be ensured. Safety shower and eyewash station should be located in the immediate work place.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
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9.1. Information on basic physical and chemical properties

Physical state	Liquid	Specific Gravity (H₂O=1), g/mL	1.01– 1.02
Appearance	Clear, green	Evaporation Rate (H₂O = 1)	No data available
Odor	Musty odor	Odor threshold	No data available
pH (as is)	11.5 – 12.5	Vapor Pressure	No data available
pH of a 1% solution	Not established	Vapor Density (Air = 1)	No data available
Boiling Point, 760 mmHg	>100°C (>212°F)	Relative density (Air = 1)	1.14 g/mL
Freezing Point range	No data available	Partition Coefficient	No data available
Decomposition temperature	No data available	Water Solubility	Complete
Oxidizing properties	No data available	Flammability Limits (solid, gas)	Not applicable to liquids
Flammability/explosive limit	No data available	Autoignition Temperature	Not established
Viscosity	No data available	Flash Point	No data available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity** : No data available
- 10.2. **Chemical stability** : Stable under recommended storage and handling conditions
- 10.3. **Possibility of hazardous reactions:** Polymerization will not occur
- 10.4. **Conditions to avoid** : Exposing this product to elevated temperatures can cause it to decompose generating toxic substances. Avoid strong oxidizers, sparks and open flames
- 10.5. **Incompatible materials** : Strong acids, strong oxidizers, and metals such as aluminium, zinc and tin
- 10.6. **Hazardous decomposition products:** None at the recommended storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION
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Information on toxicological effects**Acute toxicity:**

Chemical name	Exposure route	Test specimen	Lethal Dose (LD₅₀)	Reference
Sodium tolytriazole	Oral	Rat, female	640 mg/Kg	Literature
		Rat, male	920 mg/Kg	
BoilerPro 926	Dermal	Rabbit	> 2,000 mg/Kg	
		Rabbit	> 2,000 mg/Kg	
	Oral	Rat	1350 mg/Kg	

Chronic effects

Short-term exposure: Irritating to the eyes. May be harmful if ingested.

Long-term exposure: Repeated exposure may cause permanent tissue damage

Symptoms associated with exposure: Redness, itching, burning (from least to the most severe)

Carcinogenicity : No ingredient of this product in levels $\geq 0.1\%$ is identified and listed by OSHA, ACGIH, NTP, IARC or Mexico as a known or suspected carcinogen

Mutagenic, reproductive, developmental, target organ or neurological effects : No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Aquatic toxicity:

Chemical Name	Description of ecological effect
Sodium tolytriazole (50%)	LC ₅₀ – 245.7 mg/L (48 hour; <i>Daphnia magna</i>); LC ₅₀ – 191.2 mg/L (96 hour; Bluegill sunfish); LC ₅₀ – 23.7 mg/L (96 hour; Rainbow trout)
BoilerPro 926	LC ₅₀ – 500 mg/L (96 hour; <i>Pimaphales promelas</i>); EC ₅₀ – 828 mg/L (48 hour; <i>Ceriodaphnia dubia</i>)

12.2. **Persistence and degradability:** No data available

12.3. **Bioaccumulative potential** : No data available

12.4. **Mobility in soil** : Mobility potential of product is likely to be high due to its 100 % miscibility in water

SECTION 13: DISPOSAL CONSIDERATIONS
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13.1 **Unused/uncontaminated product** : Contact a licensed: Recycler. Reclaimer. Incinerator.

13.2 **Waste disposal methods:** Whenever possible, minimize waste. Waste should be disposed of in accordance with all laws and regulations pertaining to this product in your area of jurisdiction.

13.3 **Contaminated packaging:** Decontaminate empty containers. Treat decontamination fluid as waste and dispose as above. You may take the containers for local recycling.

13.4 **Physical properties that may affect disposal activities:** BoilerPro 926 doesn't meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity and none of its ingredients are listed in 40 CFR 261.33

13.5 **Chemical properties that may affect disposal activities:** Toxicity Characteristic Leaching Procedures (TCLP) has not been performed on BoilerPro 926.

NOTE: Do not dump into any sewers, on the ground, or into any water body. All disposal practices must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are solely the responsibility of the waste generator.

SECTION 14: TRANSPORT INFORMATION
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International Transport regulations: The levels of ingredients in this product are not sufficiently high to warrant regulation of its transport by the international bodies regulating the transport of dangerous goods (IMDG, IATA, ADR/RID)

Domestic Transport regulations :

DOT (USA) – Not regulated.

TDG (Canada) – Not regulated.

NOTE: This information is not intended to convey all specific regulatory or operational requirements relating to the transportation of this product. Additional transportation information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of this material.

SECTION 15: REGULATORY INFORMATION

US Federal regulations

SARA 313: This product is not known to contain any chemicals subject to the reporting requirements of SARA (1986) Title III, Section 313.

SARA 311/312: Acute health hazard: Yes
 Chronic health hazard: Yes

SARA 302: This product is not known to contain any chemicals subject to the reporting requirements of SARA (1986) Title III, Sections 302 or regulations contained in 40 CFR 302.

15.2. **US State regulations**

Worker and Community-Right-To-Know Act: Sodium tolytriazole (CAS RN 64665-57-2) is listed in the Pennsylvania, Massachusetts, Minnesota, New Jersey, California States right to know lists

Proposition 65: This product does not contain chemicals listed in the State of California as carcinogens, reproductive toxins at levels requiring a warning under this statute

15.3. **Worldwide Chemical Inventory Status:** All the ingredients in this product are listed in USA's TCSA, and Canada's DSL inventories.

SECTION 16: OTHER INFORMATION

Prepared by	Preparation date	Revision date	Revision number
Rhomar HTF LLC, dba Rhomar Water	06/08/2012	12/23/2015	3

LEGEND:

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| CAS : Chemical Abstracts Service | CFR : Code of Federal Regulations |
| TWA : Time Weighted Average | DOT : Department of Transport |
| IMDG : International Maritime Dangerous Goods | IATA : International Air Transport Association |
| WEEL : Workplace Environmental Exposure Limit | TDG : Transport of Dangerous Goods |
| NTP : National Toxicity Program | DSL : Domestic Substances List |
| SARA : Superfund Amendments and Reauthorization Act | OHSA : Occupational Health and Safety Act |
| OSHA : Occupational Safety and Health Administration | TCSA : Toxic Substances Control Act |
| IARC : International Agency for Research on Cancer | MSHA : Mine Safety and Health Administration |
| NIOSH : National Institute for Occupational Safety and Health | ADR & RID: European Agreements Concerning International Carriage of Dangerous Goods by Rail and by Road |
| ACGIH : American Conference of Government Industrial Hygienists | |

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