

1. IDENTIFICATION

Trade Name: 4770 Cooling Water Treatment

Chemical Name & Synonyms: Proprietary Cooling Water Treatment Blend

UN/ID No: N/A

2. Hazards Identification

Classification: Non-Hazardous

Signal Word: WARNING

Hazard Statements:

GHS – Classification

Acute toxicity - Oral N/A
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (one exposure) N/A
H315 Causes skin irritation
H319 Causes serious eye irritation

Physical Hazards N/A

Precautionary Statements:

P233 Keep container tightly closed
P234 Keep only in original container
P262 Do not get in eyes or on skin or on clothing
P270 Do not eat or drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection.



3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%
Hydroxyethylidene	2809-21-4	2-4%
Caustic Soda	1310-73-2	1-3%
Sodium Tolyltriazole	64665-57-2	<1%
Sodium Benzotriazole	15217-42-2	<1%
Tetrahydro Tolyltriazole	1307867-84-0	<1%

4. First Aid Measures

General Advice: P101: If medical advice/attention is needed; have product container or label at hand

Eye Contact: H320: Causes eye irritation

Skin Contact: H313: May be harmful in contact with skin

Inhalation: H333: May be harmful if inhaled.

Ingestion: H303: May be harmful if swallowed.

Note to Physicians: Treat symptomatically.

Self-protection of the First Aider: None specific. General healthcare PPE is appropriate

5. Fire-fighting Measures

Flammable Properties: Non-flammable

Explosive Properties: N/A

Suitable Extinguishing Media: N/A

Unsuitable Extinguishing Media: N/A

Specific Hazards Arising from the Chemical: Flammable Hydrogen gas and Sulfur Trioxide gas may be generated if material is heated to boiling point in surrounding fire.

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions: Routine PPE for any spill, no unique requirement.

Environmental Precautions: If not diluted, this product may become a hazardous waste as designated by the EPA under authority of the Resource Conservation and Recovery Act (RCRA)

Methods for Cleaning Up: Product is water soluble and may be diluted and flushed as below described.

Other Information: This product is intended to be used in open recirculating cooling water treatment and discharged to sanitary sewer in its diluted state in tower bleedoff water. Concentrated product may be diluted to a similar working concentration and flushed to sewer or soaked up with absorbent material and landfilled in accordance with local, state, and federal regulations.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: None known

8. Exposure Controls / Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL
N/A	N/A	N/A

Exposure Guidelines N/A

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE) Wear suitable industrial protective clothing

Eye/Face Protection: Industrial Safety Glasses and face shield

Body Protection: Industrial protective clothing, rubber gloves when appropriate

General Hygiene Considerations: Do not eat, drink, or smoke while handling this product.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Clear light amber liquid with slight organic odor
pH:	9.5
Specific Gravity:	1.056
Molecular Weight:	Mixture
Water Solubility:	Completely soluble
Melt/FreezePoint:	0°C / 32 °F
Boiling Point:	100 °C / 212 °F
Flammability	N/A
Flash Point:	N/A
Vapor density:	N/A

10. Stability and Reactivity

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	None known
Possibility of Hazardous Reactions:	None known

11. Toxicological Information

Chemical	Oral LD50	Dermal LD50	Inhalation LD50
Hydroxyethylidene	No Data Available	No Data Available	No Data Available
Caustic soda	No Data	1350 mg/kg (Rabbit)	
Chronic Toxicity:	N/A		
Carcinogenicity:	N/A		
Target Organ Effects:	N/A		

12. Ecological Information

Ecotoxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Blended product not tested			
Hydroxyethylidene	EC50/96h/3mg/l	868 mg/ml / 96 hrs est.	EC50/48h/527mg/l
Caustic Soda	No Data	45.4 mg/ml in 96 hr	No Data

Persistence/Degradability:	No Data
Bioaccumulation:	No Data
Mobility:	No Data

13. Disposal Considerations

Waste from Residues/Unused Products:

P501 Dispose of contents/container in accordance with local/state/federal regulations

Contaminated Packaging: Do not reuse container for potable / food contact. Wash and rinse thoroughly before reuse / recycling

14. Transport information (USDOT):

Proper shipping Name: Proprietary Cooling Water Treatment Blend

Hazard Class: Non-Hazardous

UN/ID No None

Packing Group None

Reportable Quantity (RQ) None

Description: N/A

15. Regulatory Information

This product is not regulated.

National Fire Protection Association (NFPA) Ratings:

Health Hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

NSF Certification: N/A



16. Other Information

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.