

TOWERSHIELD 5050**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: TOWERSHIELD 5050
Common Name: MIXTURE
SDS Number: 0424
Revision Date: 4/29/2015
Version: 1
Internal ID: 200C
Product Use: COOLING WATER TREATMENT
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
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2 HAZARDS IDENTIFICATION**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Oral
Health, Serious Eye Damage/Eye Irritation, 2 B
Health, Acute toxicity, 5 Inhalation
Health, Skin corrosion/irritation, 1 B

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:**GHS Hazard Statements:**

H302 - Harmful if swallowed
H320 - Causes eye irritation
H333 - May be harmful if inhaled
H314 - Causes severe skin burns and eye damage

GHS Precautionary Statements:

P281 - Use personal protective equipment as required.
P302+352 - IF ON SKIN: Wash with soap and water.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P315 - Get immediate medical advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
1310-73-2	< 5	Sodium hydroxide
7631-95-0	< 5	Sodium Molybdate (Molybdic acid, disodium salt)
64665-57-2	< 5	1H-Benzotriazole, 4(or 5)-methyl-, sodium salt
6419-19-8	< 2	Phosphonic acid, [nitrilotris(methylene)]tris-

4 FIRST AID MEASURES

Inhalation: Remove from contamination. If symptoms persist, seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Consult a physician if irritation develops.

Eye Contact: Flush eyes with plenty of running water at least 15 minutes. Seek immediate medical attention.

Ingestion: Drink several glasses of water. Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: No data available

Special treatment needs: No data available

5 FIRE FIGHTING MEASURES

Flammability: Nonflammable

Flash Point: Nonflammable

Flash Point Method: Pensky Martens Closed cup

Burning Rate: No data available

Autoignition Temp: No data available

LEL: Not applicable

UEL: Not applicable

Extinguishing Media:

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Hazardous decomposition products formed under fire conditions- Carbon

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oxides, and other hazardous compounds

Unusual Fire or Explosion Hazards: None known

Special protective equipment/precautions: Wear self-contained breathing apparatus

6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7**HANDLING AND STORAGE**

Handling Precautions: Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

Storage Requirements: Store in closed containers away from temperature extremes and incompatible materials. Store in properly labeled containers in accordance with all local, state and federal guidelines.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: HMIS PP, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

Exposure Limits:

USA OSHA (TWA)/PEL: PEL Sodium Hydroxide 2 mg/m³(C)

NIOSH (REL): Sodium Hydroxide 2 mg/m³(C)

TOWERSHIELD 5050**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear	Odor:	Slight, Sweet
Physical State:	Liquid	Solubility:	Complete in water
Odor Threshold:	No data available	Percent Volatile:	0%
Spec Grav./Density:	9.54 lb/gal	Freezing/Melting Pt.:	No data available
Viscosity:	No data available	Flash Point:	No data available
Boiling Point:	No data available	Vapor Density:	Same as water
Partition Coefficient:	No data available	Auto-Ignition Temp:	No data available
Vapor Pressure:	Same as water	UFL/LFL:	No data available
pH:	13.0		
Evap. Rate:	Not Determined		
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal storage and use conditions.
Conditions to Avoid:	Avoid temperature extremes. Protect from freezing
Materials to Avoid:	Strong Acids, strong oxidizing agents
Hazardous Decomposition:	Thermal decomposition may produce carbon oxides and other toxic compounds.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin Corrosion/Irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No components listed as a carcinogen
Reproductive Toxicity: No data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available

12 ECOLOGICAL INFORMATION

Aquatic Toxicity: No data available
Elimination (persistence & degradability): No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

TOWERSHIELD 5050**13 DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14 TRANSPORT INFORMATION

UN1760, Corrosive liquids, n.o.s., 8, PGIII, (Sodium Hydroxide)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

15 REGULATORY INFORMATION**Component (CAS#) [%] - CODES**

RQ(1000LBS), Sodium hydroxide (1310-73-2) [< 5] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Sodium Molybdate (Molybdic acid, disodium salt) (7631-95-0) [< 5] TSCA

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt (64665-57-2) [< 5] TSCA

Phosphonic acid, [nitrilotris(methylene)]tris- (6419-19-8) [< 2] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

EPA / CERCLA / SARA TITLE III:

Toxic Chemical List (SARA 313): This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

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SARA 312: Acute
RCRA: Corrosive, D002

16**OTHER INFORMATION**

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0
HMIS PPE: C - Safety Glasses, Gloves, Apron

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

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Revision Notes: Updated to GHS format

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