SAFETY DATA SHEET

TOWERSHIELD 6020

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TOWERSHIELD 6020
Common Name: MIxture
SDS Number: 3049
Revision Date: 7/22/2016
Version: 1
Product Use: Cooling Water Treatment

Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency phone #: 866-663-7633
Email: SDS@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

GHS Hazard Statements:

H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H316 - Causes mild skin irritation

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.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P313 - Get medical advice/attention.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

3 COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
1310-58-3	<1%	Potassium hydroxide

The balance of the mixture is a trade secret.

4 FIRST AID MEASURES

Inhalation: Move individual to fresh air. If person has stopped breathing administer artificial respiration. Seek medical attention.

Skin Contact: Wash off with soap and plenty of water. Consult a physician if irritation develops. Remove contaminated garments and wash or destroy.

Eye Contact: Flush eyes with plenty of running water at least 15 minutes. Seek medical attention if irritation develops or persists.

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)**:** Eye and skin irritation or damage.
Indication of need for immediate medical attention: No data available
Special treatment needs: No data available

5 FIRE FIGHTING MEASURES

Flammability: Non flammable
Flash Point: > 200°F
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 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: Wash Hands thoroughly after handling product.
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: No special ventilation required.

Personal Protective Equipment:
HMIS PP, C | Safety Glasses, Gloves, Apron
HMIS PP, X | Consult your supervisor for special instructions.
Splash proof safety goggles and rubber gloves are recommended.
Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
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 (TLV): 2mg/m3 (Potassium Hydroxide)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow to amber liquid		
Physical State:	Liquid	**Odor:**	Mild characteristic azole
Odor Threshold:	No data available	**Molecular Formula:**	No data available
Particle Size:	No data available	**Solubility:**	Completely soluble in water
Spec Grav./Density:	9.65lbs/gal (1.16 - 1.18g/mL)	**Softening Point:**	No data available
Viscosity:	No data available	**Percent Volatile:**	No data available
Sat. Vap. Conc.:	No data available	**Heat Value:**	No data available
Boiling Point:	No data available	**Freezing/Melting Pt.:**	No data available
Flammability:	Nonflammable	**Flash Point:**	>200° F
Partition Coefficient:	No data available	**Octanol:**	No data available
Vapor Pressure:	No data available	**Vapor Density:**	No data available
pH:	12.0 - 13.0	**VOC:**	Contains no VOC's

Evap. Rate:	<1 (Ether = 1)	**Auto-Ignition Temp:**	No data available
Molecular weight:	No data available	**UFL/LFL:**	No data available
Decomp Temp:	No data available		

10 STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal use and storage conditions.
Conditions to Avoid:	Avoid temperature extremes. Protect from freezing
Materials to Avoid:	Strong acids and oxidizing agents.
Hazardous Decomposition:	Oxides of carbon and nitrogen.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available
Skin Corrosion/Irritation: Irritating
Serious eye damage/irritation: May cause eye damage
Respiratory or skin sensitization: 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
Carcinogenicity: No carcinogenic effects are known for the components of this product
Germ Cell Mutagenicity: No mutagenic effects are known for the components of this product
Teratogenicity: No teratogenic effects are known for the components of this product

12 ECOLOGICAL INFORMATION

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

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.
If the undiluted product is dioscarded as waste, the US RCRA hazardous waste identification number is: D002= Corrosive (pH)

14 TRANSPORT INFORMATION

Proper Shipping Name: UN1760, Corrosive liquids, n.o.s. (Potassium Hydroxide), 8, PGIII

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), Potassium hydroxide (1310-58-3) [<1%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Regulatory CODE Descriptions

RQ = Reportable Quantity
CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
MASS = MA Massachusetts Hazardous Substances List
OSHAWAC = 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.
SARA 312: No data available
RCRA: No data available

16 OTHER INFORMATION

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

Author: U.S. Water Services

Revision Notes: Reviewed and updated

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