

BWT-720

SDS Number: 0720

Revision Date: 3/24/2021

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Alliance Group Inc. 262-251-4977
N114 W18621 Clinton Drive
Germantown, WI 53022

Phone: 800-255-3924**Emergency:** CHEMTEL

Product Identifier: BWT-720
Common Name: Potassium Hydroxide
SDS Number: 0720
Revision Date: 3/24/2021
Product Use: Water Treatment Compound

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, 1
Health, Skin corrosion/irritation, 1 A
Health, Skin sensitization, 1
Health, Acute toxicity, 5 Inhalation
Health, Acute toxicity, 5 Oral
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements**GHS Signal Word:** **DANGER****GHS Hazard Pictograms:****GHS Hazard Statements:**

H318 - Causes serious eye damage
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H333 - May be harmful if inhaled
H303 - May be harmful if swallowed
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P363 - Wash contaminated clothing before reuse.
P405 - Store in secure manner
P501 - Dispose of contents/container to an approved waste disposal plant.

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

Route of Entry:	Eyes; Inhalation; Ingestion; Skin.
Target Organs:	Respiratory system; Eyes; Skin.
Inhalation:	Can cause severe irritation and inflammation of the respiratory tract. Vapors or airborne mist may cause damage to upper respiratory tract, nasal discomfort and coughing.
Skin Contact:	Corrosive: May cause irritation, swelling and redness. Note that irritation may follow an initial latency period which will vary depending on concentration exposure.
Eye Contact:	Corrosive: May cause irritation. May cause permanent eye damage. Effects may vary depending on length of exposure, concentration of the solution, and first aid measures.
Ingestion:	May be harmful if swallowed. This material may cause discomfort, nausea, vomiting, diarrhea, if swallowed. May cause damage to mouth, esophagus and stomach.

HMIS III: Health = 2(Chronic), Fire = 0, Physical Hazard = 0

HMIS	
HEALTH	<input checked="" type="checkbox"/> 2
FLAMMABILITY	<input type="checkbox"/> 0
PHYSICAL HAZARD	<input type="checkbox"/> 0
PERSONAL PROTECTION	<input type="checkbox"/>

3**COMPOSITION/INFORMATION OF INGREDIENTS**

*Substance/Mixture: Mixture

Chemical Ingredients:		
CAS#	%	Chemical Name:
71050-62-9	<10%	2-Propenoic acid, polymer with sodium phosphinate
6381-77-7	<10%	D-erythro-Hex-2-enonic acid, monosodium salt
26099-09-2	<10%	2-Butenedioic acid (2Z)-, homopolymer
100-37-8	<15%	Diethylaminoethanol
497-19-8	<5%	Carbonic acid disodium salt
1310-58-3	<10%	Potassium hydroxide

4**FIRST AID MEASURES**

Inhalation:	If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Promptly flush skin with water for 15 minutes. Remove contaminated clothing immediately. Get immediate medical attention. Do not reuse clothing and shoes until cleaned. Discard leather articles such as shoes and belt. Do not apply oils and ointments unless ordered by a physician.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion:	If swallowed: If fully conscious, drink a quart of water. Do NOT induce vomiting. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim.



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For spontaneous vomiting, keep head below hips.

5 FIRE FIGHTING MEASURES

Flammability:	No data available
Flash Point:	No data available
Flash Point Method:	No data available.
Burning Rate:	No data available.
Autoignition Temp:	No data available.
LEL:	No data available.
UEL:	No data available.

Fire Fighting Methods

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire exposed containers and disperse vapors.

Unusual Fire or Explosion Hazards:

This material in contact with water or acids may generate sufficient heat to ignite nearby combustible materials. Contact with aluminum, tin, or zinc will result in the generation of heat and release of hydrogen gas. Run-off from fire control may cause pollution. Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. High pressure water hose may spread product and produce irritating fumes and toxic gases (including carbon monoxide, carbon dioxide, and sodium oxides). Products of combustion are irritating to the respiratory tract and may cause breathing difficulty. Symptoms may be delayed several hours or longer depending upon extent of exposure.

Extinguishing Media

Suitable: Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable fire extinguisher: No data available.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate area. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let products enter drains. Discharge into the environment must be avoided.

Spill

Soak up with inert absorbent material and dispose of as hazardous waste. Neutralize remaining traces of material with any dilute inorganic acid. The spill area should be flushed with water and followed by liberal covering of sodium bicarbonate. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Do not puncture or drop containers. Do not expose containers to open flame, excessive heat, or direct sunlight.

Storage Requirements: Store in cool/dry area. Keep container tightly closed in a dry and well ventilated area. Do not freeze. Do not store in unlabeled or mislabeled containers.



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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in confined spaces.
Personal Protective Equipment:	<p>Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p>Respiratory Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.</p> <p>Eyes and Face Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.</p> <p>Skin Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.</p>

Component	OSHA PEL	ACGIH TWA/ TLV
Sodium Hydroxide	2 mg/m ³	2 mg/m ³
Diethylaminoethanol	10 ppm -skin	2 ppm - skin
Sodium Carbonate	5 mg/m ³	10 mg/m ³

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, light amber / brown	Odor:	Mild amine odor
Physical State:	Liquid	Molecular Formula:	No data available.
Odor Threshold:	No data available.	Solubility:	Complete
Particle Size:	No data available.	Softening Point:	No data available.
Spec Grav./Density:	1.115	Percent Volatile:	No data available
Viscosity:	No data available.	Heat Value:	No data available.
Saturated Vapor Concentration:	No data available.	Freezing/Melting Pt.:	32°F
Boiling Point:	293° F	Flash Point:	No data available.
Flammability:	No data available.	Octanol:	No data available.
Partition Coefficient:	No data available.	Vapor Density:	No data available
Vapor Pressure:	No data available.	VOC:	None
pH:	>11	Bulk Density:	No data available.
Evap. Rate:	No data available	Auto-Ignition Temp:	No data available.
Molecular weight:	No data available.	UFL/LFL:	No data available.
Decomp Temp:	No data available.		

Lower Explosion Limits: No data available.

Upper Explosion Limits: No data available.

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STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Product absorbs carbon dioxide from the air. Keep container closed when not in use.
Materials to Avoid:	Strong acids. Aluminum. Zinc. Strong oxidizers.



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Hazardous Decomposition: Thermal decomposition may release: carbon monoxide, carbon dioxide, and sodium compounds.

Hazardous Polymerization: Will not occur under normal conditions.

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TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: May cause eye irritation. Serious eye damage/eye irritation. Effects may vary depending on the length of exposure, solution, concentration, and first aid measures.

- » Potassium Hydroxide - Eyes - corrosive to eyes
- » Diethylaminoethanol - Eyes - conjunctive irritation
- * Serious eye damage/eye irritation: Eyes - Rabbit: severe eye irritation

Skin Effects: May cause skin irritation; burns

- » Potassium Hydroxide - Dermal LD50 - no data available
- » Diethylaminoethanol - Dermal LD50 - Rabbit: 1113 mg/kg
- » Sodium Carbonate - Dermal LD50 - no data available

Inhalation Effects: May cause moderate irritation. May irritate nose, throat, and respiratory tract.

- » Potassium Hydroxide - Inhalation LC50 - no data available
- » Diethylaminoethanol - Inhalation LC50 - Mouse: 5000 mg/m³
- » Sodium Carbonate - Inhalation LC50 - Rat: 5750 mg/L 2H

Ingestion Effects: May be harmful if swallowed; cause irritation. May cause burning sensation, pain.

- » Potassium Hydroxide - Oral LD50 - Rat: 1450 mg/kg
- » Diethylaminoethanol - Oral LD50 - Rat: 1300 mg/kg
- » Sodium Carbonate - Oral LD50 - Rat: 4090 mg/kg

Chronic Effects: No data available.

Mutagenicity: No data available.

Teratogenicity: No data available.

Fertility Effects: No data available.

Carcinogenicity: Mouse - oral: Tumorigenic: Neoplastic by RTECS criteria. Lungs, thorax, or Respiration: bronchiogenic carcinoma (DEAE). This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen

Acute Toxicity Estimate (ATE):

Inhalation Vapor: No data available.

Inhalation Dust/Mist: No data available.

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ECOLOGICAL INFORMATION

Biodegradability: No data available.

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Ecotoxicity:**Toxicity to fish:**

LC50- Freshwater fish - 80 mg/L- 96 H (Potassium Hydroxide)

LC50- Leuciscus idus (Golen orfe) - 100-220mg/L- 96 hr (Diethylaminoethanol)

LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h (Sodium Carbonate)

Toxicity to aquatic invertebrates:

EC50- Daphnia magna (Water flea) - 83.6 mg/L- 48 hr (Diethylaminoethanol)

EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h. (Sodium Carbonate)

Toxicity to algae:

EC50 - Algae >30mg/L - 72 hr (Diethylaminoethanol)

Mobility in Soil: No data available**Bioaccumulative Potential:** No data availableOther Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

14**TRANSPORT INFORMATION**

UN3267, Corrosive liquid, basic, organic, n.o.s., 8, PGII, (Potassium Hydroxide, Diethylaminoethanol)

**15****REGULATORY INFORMATION**

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) 8 (b) Inventory.

CERCLA / SARA Emergency Reporting: A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements.



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» **Potassium Hydroxide CERCLA reporting amount = 1000 lbs**

SARA Title III Section 313: This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

Clean Water Act (CWA): The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. » **Potassium Hydroxide.**

OSHA Hazcom Standard Rating: Hazardous

STATE REGULATIONS

California Proposition 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Diethylethanolamine (CAS# 100-37-8)

New Jersey - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Diethylethanolamine (CAS# 100-37-8)

Pennsylvania - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Diethylethanolamine (CAS# 100-37-8)

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OTHER INFORMATION

Prepared By: P May

Reason For Revision: Updated GHS & Regulatory Information

Disclaimer:

This information is given in good faith and based on our current knowledge of the product. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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