

OS-192

SDS Number: 0192

Revision Date: 1/6/2020

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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: OS-192
Common Name: Potassium Hydroxide
SDS Number: 0192
Revision Date: 1/6/2020
Chemical Family: Potassium Salt
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, Skin corrosion/irritation, 1 A
Physical, Corrosive to Metals, 1
Health, Acute toxicity, 4 Oral
Environmental, Hazards to the aquatic environment - Acute, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals
H302 - Harmful if swallowed
H402 - Harmful to aquatic life

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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. Immediately call a poison center or doctor/physician.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call Poison Center or doctor
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to an approved waste disposal plant

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



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Route of Entry: Eyes; Inhalation; Ingestion; Skin.
Target Organs: Respiratory system; Eyes; Skin; Teeth.
Inhalation: May be harmful if inhaled. Can cause irritation and inflammation to the tissue of the mucous membranes and upper respiratory tract.
Skin Contact: May cause irritation and redness.
Eye Contact: May cause irritation, tearing, redness. Potential for eye burns.
Ingestion: May be harmful if swallowed.

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

HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

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COMPOSITION/INFORMATION OF INGREDIENTS

Substance/Mixture: Mixture

CAS#	Chemical Ingredients: %	Chemical Name:
1310-58-3	<30%	Potassium hydroxide
7631-90-5	<30%	Sodium bisulfite

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FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. Consult a physician.
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: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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FIRE FIGHTING MEASURES

Flammability: Not flammable or combustible.
Flash Point: No data available.
Flash Point Method: No data available.
Burning Rate: No data available.
Autoignition Temp: No data available.



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LEL: No data available.

UEL: No data available.

Fire Fighting Methods

Evacuate area of unprotected personal. 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: No data available.

Extinguishing Media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable fire extinguisher: No data available

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ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Contain spill, place in drums for proper disposal. 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. Keep in suitable, closed containers for disposal. Flush remaining area with water to remove trace residue and dispose of properly.

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HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or mist. Wash thoroughly after handling.

Storage Requirements: Store in cool/dry area. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in closed or confined spaces.

Personal Protective Equipment:

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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.

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.

Skin

Prevent contact with this product. Wear gloves and protective clothing depending on conditions of use. Protective gloves: gauntlet-type, neoprene, nitrile.



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Component	OSHA PEL	ACGIH TWA/ TLV
Potassium Hydroxide	2 mg/m ³	2 mg/m ³
Sodium Bisulfite	No data available	5 mg/m ³

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, pale yellow liquid.	Odor:	No odor.
Physical State:	Liquid	Molecular Formula:	No data available.
Odor Threshold:	No data available.	Solubility:	Dispersible
Particle Size:	No data available.	Softening Point:	No data available.
Spec Grav./Density:	1.260 to 1.280	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:	212-270 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:	No data available.
pH:	8.9-9.6	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:	No data available.
Materials to Avoid:	Keep away from acids.
Hazardous Decomposition:	No data available.
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.

- » Sodium Bisulfite - no data available
- » Potassium Hydroxide - Eyes - Rabbit = corrosive to eyes

Skin Effects: May cause skin irritation; burns

- » Sodium Bisulfite - Dermal LD50 - no data available
- » Potassium Hydroxide - Dermal LD50 - no data available

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

- » Sodium Bisulfite - Inhalation LC50 - no data available



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» Potassium Hydroxide - Inhalation LC50 - no data available

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

» Sodium Bisulfite - Oral LD50 - Rat = 333 mg/kg

» Potassium Hydroxide - Oral LD50 - Rat = 1450 mg/kg

Chronic Effects: No data available.

Mutagenicity: No data available.

Teratogenicity: No data available.

Fertility Effects: No data available.

Carcinogenicity: IARC: 3 - Group 3: not classifiable as to its carcinogenicity to humans (sodium bisulfite)

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

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ECOLOGICAL INFORMATION

Biodegradability No data available.

Ecotoxicity Toxicity to fish:

LC50- *Gambusia affinis* (Mosquito fish) - 80 mg/L- 96 hr (Potassium Hydroxide)

LC50- *Gambusia affinis* (Mosquito fish) - 240 mg/L- 96 hr (Sodium Bisulfite)

Toxicity to aquatic invertebrates:

EC50 - *Daphnia magna* (water flea) - 102 mg/l - 4.2 d (sodium bisulfite)

Bioaccumulative potential: No data available

Mobility in soil: No data available

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

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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.

RCRA

Hazardous Waste Number: This material is not listed as a hazardous waste if and when it is discarded.

Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at time of disposal

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TRANSPORT INFORMATION

Not DOT regulated as a hazardous product.



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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.

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

» **Sodium Bisulfite CERCLA reporting amount = 5000 lbs**

SARA Title III Section 313: This product does not require reporting.

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.

STATE REGULATIONS

California- The following components are listed under Prop 65: None.

Massachusetts - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Sodium Bisulfite (CAS# 7631-90-5)

New Jersey - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Sodium Bisulfite (CAS# 7631-90-5)

Pennsylvania - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3), Sodium Bisulfite (CAS# 7631-90-5)

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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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