



OS-192

SDS Number: 0192

Revision Date: 4/10/2015

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Alliance Group, Inc. 800-648-7339
N114 W18621 Clinton Drive
Germantown, WI 53022

Contact: CHEMTEL
Phone: 1-800-255-3924

Product Name: OS-192
Revision Date: 4/10/2015
SDS Number: 0192
Common Name: Potassium Hydroxide
Product Code: 0192
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.
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.



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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

Route of Entry: Eyes; Inhalation; Ingestion; Skin.
Target Organs: Respiratory system; Eyes; Skin; Teeth.
Inhalation: Can cause irritation and inflammation of the respiratory tract.
Skin Contact: May cause irritation, tearing and redness.
Eye Contact: May cause irritation.
Ingestion: May be harmful if swallowed.

HMIS III: Health = 2, Fire = 0, Physical Hazard = 0

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Substance/Mixture: Mixture

Cas#	%	Chemical Name
1310-58-3	<50%	Potassium hydroxide
7631-90-5	<40%	Sodium bisulfite

4 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. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. Rinse mouth with water.

5 FIRE FIGHTING MEASURES

Flammability: Not flammable or combustible.
Flash Point: Not Applicable
Autoignition Temp: None.

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.



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Unusual Fire or Explosion Hazards:

None known.

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

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. 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:

CORROSIVE MATERIAL. Store in cool/dry area. Keep away from sunlight, heat, sparks, and flames. 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.

Personal Protective Equipment:

HMIS PP, E | Safety Glasses, Gloves, Dust Respirator

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.

Component	OSHA PEL	ACGIH TWA/ TLV
Potassium Hydroxide	2 mg/m3	2 mg/m3
Sodium Bisulfite	No data	5 mg/m3

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PHYSICAL AND CHEMICAL PROPERTIES



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Appearance: Clear, yellow liquid.
Physical State: Liquid
Odor Threshold: No data available.
Spec Grav./Density: 1.260 to 1.280
Viscosity: No data available.
Boiling Point: 212-270 F
Flammability: No data available.
Vapor Pressure: No data available.
pH: 8.9 to 9.6
Evap. Rate: No data available.
Decomp Temp: No data available.

Odor: No odor.
Solubility: Dispersible
Percent Volatile: None
Freezing/Melting Pt.: No data available.
Flash Point: No data available.
Vapor Density: No data available.
Auto-Ignition Temp: No data available.

Lower Explosion Limits: No data available.

Upper Explosion Limits: No data available.

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.
Conditions to Avoid: None known.
Materials to Avoid: Keep away from acids.
Hazardous Decomposition: Not known.
Hazardous Polymerization: Will not occur under normal conditions.

11 TOXICOLOGICAL INFORMATION

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, chest pain

Chronic Effects: Not Known.
Carcinogenicity: IRAC: 3- Group 3: Not classifiable as to its carcinogenicity to humans(sodium bisulfite)
 No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by ACGIH, NTP, or OSHA.
Mutagenicity: Not Known.
Teratogenicity: Not Known.
Fertility Effects: Not Known.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Bisulfite	Rat: 1420 mg/kg	No Data	No Data
Potassium Hydroxide	Rat: 333 mg/kg	No Data	No Data

12 ECOLOGICAL INFORMATION

Biodegradability No data available.

Ecotoxicity Toxicity to fish:
 LC50- Gambusia affnis (Mosquito fish) - 80 mg/L- 96 hr (Potassium Hydroxide)
 LC50- Gambusia affnis (Mosquito fish) - 240 mg/L- 96 hr (Sodium Bisulfite)
 Toxicity to aquaPotassium hydroxide (1310-58-3) [<50%]

Bioaccumulative potential: no data available

Mobility in soil: no data available



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Other 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.

Hazardous Waste Number: Not Available.

14 TRANSPORT INFORMATION

UN3266, Corrosive liquid, basic, inorganic, n.o.s., 8, PGII, (Potassium Hydroxide, Sodium Bisulfite)

DOT Proper Shipping Name: Corrosive liquid, basic, inorganic, nos

DOT Technical Name: Potassium Hydroxide, Sodium Bisulfite

DOT Hazard Class:8

DOT UN/NA Number: UN3266

Packing Group: II

Resp. Guide Page:

Reportable Quantity (RQ): N/A

15 REGULATORY INFORMATION

FEDERAL REGULATIONS

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category:

Immediate(Acute) Health Hazard: YES

Delayed (Chronic) Health Hazard: YES

Fire Hazard: NO

Sudden Release of Pressure Hazard: NO

Reactive Hazard: NO

SARA Section 302/304/313/HAP:

Table with 6 columns: Component, CERCLA RQ (LBS), SARA RQ(LBS), SARA TPQ(LBS), SARA SEC 313, US EPA HAP. Rows for Potassium Hydroxide and Sodium Bisulfite.

*May contain trace components: cobalt sulfate heptahydrate <0.1%

STATE REGULATIONS

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

Wisconsin- The following components are listed as a Wisconsin HAP: None.

16 OTHER INFORMATION

Complies with CFR Title 21 Section 173.310 for boiler water and steam which may contact dairy products



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Prepared By: P May

Reason for Revision: GHS Format

This information is given in good faith and based on our current knowledge of the product.

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