

# Alkaline Purge

SDS Number: 0104

Revision Date: 4/1/2020

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## 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: Alkaline Purge  
Common Name: Sodium Hydroxide  
SDS Number: 0104  
Revision Date: 4/1/2020  
Product Use: Water Treatment Compound

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## HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

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

Health, Skin corrosion/irritation, 1 A  
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  
H402 - Harmful to aquatic life

#### GHS Precautionary Statements:

P264 - Wash skin 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 locked up, if possible.  
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.

Inhalation: May be harmful if inhaled. May cause irritation and inflammation of the respiratory tract.

Skin Contact: May be harmful if absorbed through skin. Prolonged and repeated contact, even with dilute concentrations, can cause skin burns.



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**Eye Contact:** May cause severe irritation and burns.**Ingestion:** May be harmful if swallowed.**HMIS III:** Health = 3(Chronic), Fire = 0, Physical Hazard = 1**HMIS PPE:** D - Face Shield and Eye Protection, Gloves, Apron

HMIS		
HEALTH	<input checked="" type="checkbox"/>	3
FLAMMABILITY		0
PHYSICAL HAZARD		1
PERSONAL PROTECTION		D

**3****COMPOSITION/INFORMATION OF INGREDIENTS**

\*Substance/Mixture: Mixture

CAS#	Chemical Ingredients: %	Chemical Name:
1310-73-2	<45%	Sodium hydroxide
31138-65-5	<5%	Sodium Glucoheptonate

**4****FIRST AID MEASURES**

**Inhalation:** If symptoms develop, move victim to fresh air. If not breathing, give oxygen or artificial respiration. Consult a physician

**Skin Contact:** Promptly flush skin with water for 15 minutes. Wash with soap and water. Remove contaminated clothing immediately if needed. Consult a physician. Do not reuse clothing and shoes until cleaned. 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. If swallowed and fully conscious, rinse mouth with water. Seek immediate medical attention. If unconscious, take to a hospital or physician. Never induce vomiting or give anything by mouth to an unconscious victim. For spontaneous vomiting, keep head below hips.

**5****FIRE FIGHTING MEASURES**

**Flammability:** Not flammable or combustible

**Flash Point:** None

**Flash Point Method:** No data available.

**Burning Rate:** No data available.

**Autoignition Temp:** None

**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 if necessary. 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:

Can react violently on contact with water producing heat or gas. Run-off from fire control may cause pollution. Keep fire-exposed containers cool with water spray to prevent rupture due to excessive heat. Products of combustion are irritating to the respiratory tract and may cause breathing difficulty.

### Extinguishing Media

**Suitable:** Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable fire extinguishing data:** No data available.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal Precautions

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

### Environmental Precautions

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

### Spill

Contain spillage, and then soak up with inert absorbent material and dispose of as hazardous waste. 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.

**Storage Requirements:** Store in cool/dry area. Keep away from incompatible materials. Keep container tightly closed. Do not store in unlabeled or mislabeled containers. Store above 55 F

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide local exhaust ventilation. Maintain adequate ventilation. Do not use in 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.



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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
Sodium Hydroxide	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Sodium Glucoheptonate	No data available	

**9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, opaque, brown liquid	<b>Odor:</b>	Characteristic
<b>Physical State:</b>	Liquid	<b>Molecular Formula:</b>	No data available.
<b>Odor Threshold:</b>	No data available.	<b>Solubility:</b>	Complete
<b>Particle Size:</b>	No data available.	<b>Softening Point:</b>	No data available.
<b>Spec Grav./Density:</b>	1.46	<b>Percent Volatile:</b>	None
<b>Viscosity:</b>	No data available.	<b>Heat Value:</b>	No data available.
<b>Saturated Vapor Concentration:</b>	No data available.	<b>Freezing/Melting Pt.:</b>	54°F
<b>Boiling Point:</b>	293° F	<b>Flash Point:</b>	No data available.
<b>Flammability:</b>	Not flammable	<b>Octanol:</b>	No data available.
<b>Partition Coefficient:</b>	No data available.	<b>Vapor Density:</b>	Heavier than air
<b>Vapor Pressure:</b>	Not Determined	<b>VOC:</b>	None
<b>pH:</b>	>13.0	<b>Bulk Density:</b>	No data available.
<b>Evap. Rate:</b>	Slower than butyl acetate	<b>Auto-Ignition Temp:</b>	No data available.
<b>Molecular weight:</b>	No data available.	<b>UFL/LFL:</b>	No data available.
<b>Decomp Temp:</b>	No data available.		

Lower Explosion Limits: No data available.

Upper Explosion Limits: No data available.

**10****STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid contact with acids without good agitation. Exercise care when mixing with water, may cause violent reaction with evolution of heat. To dilute: Add products slowly to lukewarm water, not water to product.
<b>Materials to Avoid:</b>	Acids will cause violent reaction with heat and gas.
<b>Hazardous Decomposition:</b>	Does not decompose.
<b>Hazardous Polymerization:</b>	Will not occur under normal conditions.

**11****TOXICOLOGICAL INFORMATION****Toxicity Data:**

Eye: Corrosive- Causes severe eye irritation and burns. May cause: blurred vision, redness, pain, conjunctivitis, ulcerations, tissue destruction, permanent eye damage, blindness. (Eyes - rabbit - Corrosive - 24h)

Dermal: Corrosive- Causes irritation and burns. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin. (Skin - rabbit - Causes severe burns - 24h)

Inhalation: May be harmful if inhaled. Vapors and mists may damage: mucous membranes, respiratory tract. Vapors or mists



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may cause: coughing, sore throat, shortness of breath.

Oral: May be harmful if swallowed. May cause damage to the: mouth, throat, esophagus, stomach, gastrointestinal tract.

## Potential Chronic Health Effects:

Carcinogenicity: 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, NTP, or OSHA.

Mutagenicity: No data available.

Teratogenicity: No data available.

Fertility Effects: No data available.

<b>Component</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Sodium Hydroxide	No data available	No data available	No data available.
Sodium Glucoheptonate	No data available	No data available	No data available

## 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

### EcoToxicity:

Toxicity to fish

LC50 - *Gambusia affinis* (Mosquito fish) - 125 mg/l - 96 h.

Toxicity to aquatic invertebrate

Immobilization EC50 - *Daphnia* - 40.38 mg/l - 48 h.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment: not available as chemical safety assessment not required/not conducted

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

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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. DO NOT pressurize, cut, weld, solder, drill, grind, or expose empty containers to heat, flame, sparks or other sources of ignition.

Hazardous Waste Number: D002

\* Should be assigned in discussion between the user, the producer, and the waste disposal company

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## **TRANSPORT INFORMATION**

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

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**15****REGULATORY INFORMATION**

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

**Regulatory CODE Descriptions**

RQ = Reportable Quantity  
CERCLA = Superfund clean up substance  
CSWS = Clean Water Act Hazardous substances  
MASS = MA Massachusetts Hazardous Substances List  
OSHA = 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

**FEDERAL REGULATIONS**

TSCA Inventory Status: All components of this product are listed "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.

» **Sodium Hydroxide - CERCLA Reporting amount 1000 lbs**

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. »

**Sodium Hydroxide**

RCRA: The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes.

» **Waste Code D002 = Corrosivity**

**STATE REGULATIONS**

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

**Massachusetts - RTK Substances:** The following components are listed: Sodium Hydroxide (CAS# 1310-73-2)

**New Jersey - RTK Substances:** The following components are listed: Sodium Hydroxide (CAS# 1310-73-2)

**Pennsylvania - RTK Substances:** The following components are listed: Sodium Hydroxide (CAS# 1310-73-2)

**16****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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