

Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 1 of 7

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: Rustoscale #6
Common Name: Potassium Hydroxide
SDS Number: 0117
Revision Date: 3/10/2021
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
Physical, Corrosive to Metals, 1
Environmental, Hazards to the aquatic environment - Acute, 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
H290 - May be corrosive to metals
H402 - Harmful to aquatic life

GHS Precautionary Statements:

P234 - Keep only in original container.
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. Immediately call poison control center, doctor or physician.
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. Immediately call poison control center or doctor/physician
P363 - Wash contaminated clothing before reuse.
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:** Can cause severe irritation and inflammation of the respiratory tract.



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 2 of 7

- Skin Contact:** May cause irritation, scarring and permanent damage.
- Eye Contact:** May cause irritation and burns. May cause permanent eye damage.
- Ingestion:** Corrosive and may cause severe damage to mouth, throat, 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:
497-19-8	<5%	Sodium carbonate monohydrate
1310-58-3	<15%	Potassium hydroxide

4 FIRST AID MEASURES

- Inhalation:** If symptoms develop, move victim to fresh air. Give oxygen or artificial respiration if needed. Seek medical attention if symptoms persist.
- 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. 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.



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 3 of 7

Unusual Fire or Explosion Hazards:

Product may react with some metals (ex: aluminum, zinc, tin, etc) to release flammable hydrogen gas. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

Extinguishing Media

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

Unsuitable fire extinguisher: No data available. Do not use direct water stream

6

ACCIDENTAL RELEASE MEASURES

Personal Precautions

Evacuate personnel to safe area if spill occurs. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Never exceed any occupational exposure limits. Caution: this product may react violently with acids and water.

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. Neutralize remaining residue with dilute hydrochloric acid solution and dispose of properly. Flush remaining area with water to remove trace residue.

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. Add product to water slowly while stirring. If product is added rapidly or without stirring and becomes concentrated at the bottom of the mixing vessel, excessive heat may be generated.

Storage Requirements:

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 expose sealed containers to temperatures above 104°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.

Skin



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 4 of 7

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/m ³	2 mg/m ³
Sodium Carbonate	5 mg/m ³	10 mg/m ³

9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear. Dark Brown	Odor:	Odorless
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:	1.10	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:	Heavier than air
Vapor Pressure:	No data available.	VOC:	No data available.
pH:	>13.0	Bulk Density:	No data available.
Evap. Rate:	Slower than butyl acetate	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.

10

STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Product adsorbs carbon dioxide from the air. Keep containers closed and sealed. To dilute: Add products slowly to lukewarm water, not water to product.to product.
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition:	Thermal decomposition may release: carbon monoxide, carbon dioxide, and sodium compounds.
Hazardous Polymerization:	Will not occur under normal conditions.

11

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 Carbonate - no data available

» Potassium Hydroxide - Eyes - Rabbit = corrosive to eyes

Skin Effects: May cause skin irritation; burns

» Sodium Carbonate - Dermal LD50 - no data available



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 5 of 7

» Potassium Hydroxide - Dermal LD50 - no data available

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

» Sodium Carbonate - Inhalation LC50 - Rat - 2300mg/m³ - 2H

» Potassium Hydroxide - Inhalation LC50 - no data available

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

» Sodium Carbonate - Oral LD50 - Rat = 4090 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: 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

12

ECOLOGICAL INFORMATION

Biodegradability: No data available.

Ecotoxicity

Toxicity to fish:

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

» Sodium Carbonate LC50- *Lepomis macrochirus* (bluegill) - 300 mg/L - 96 hr

Toxicity to aquatic invertebrate:

» Sodium Carbonate EC50-*Daphnia magna* (water flea) - 265 mg/l - 48 hr

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.

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.



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 6 of 7

14 TRANSPORT INFORMATION

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

Resp. Guide Page: 154



15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Carbonic acid disodium salt (497-19-8) [<5%] TSCA

RQ(1000LBS), Potassium hydroxide (1310-58-3) [<15%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

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
TSCA = Toxic Substances Control Act
CERCLA = Superfund clean up substance
CSWHS = 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
TXAIR = TX Air Contaminants with Health Effects Screening Level

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**

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 of the chemicals are listed.

Massachusetts - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3)

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



Rustoscale #6

SDS Number: 0117

Revision Date: 3/10/2021

Page 7 of 7

Pennsylvania - RTK Substances: The following components are listed: Potassium Hydroxide (CAS# 1310-58-3)

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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