

Special protective equipment for firefighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus.
NFPA	
Health:	1
Flammability:	0
Instability:	0
Physical Hazards:	Alkaline
Section 6: Accidental Release Measures	
Personal precautions:	Ensure adequate ventilation. Especially in confined areas. Do not breathe vapors, aerosols. Avoid substance contact. Wear protective gloves/protective clothing and eye/face protective gear when handling.
Measures for environmental protection:	Prevent product from entering drains.
Measures for cleaning/collecting:	Residues from spills can be diluted with water. Spillages may be slippery
Section 7: Handling and Storage	
Handling:	Wear at least chemical resistant gloves and eye protection, face shield, and chemical resistant garments when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.
Storage:	Keep product in tightly closed container when not in use. Do not drop, roll, or skid drum. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.
Incompatible Materials:	Avoid strong oxidizing agents, soft metals, acids, and heat.
Section 8: Exposure Controls/Personal Protection	
General protective and hygienic measures:	Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industry hygiene and safety practice.
Breathing equipment:	Not a respiratory irritant unless dealing with a mist form, then wear appropriate NIOSH respirator.
Skin and Body Protection:	Wear chemical resistant gloves and chemical resistant



Eye protection:

garments when handling, wash garments before re-use. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses and or face shield.

Control of environmental exposure:

Do not allow to enter drains/surface water

Section 9: Physical and Chemical Properties

Form:	Liquid
Color:	Clear
Odor:	Odorless
Odor threshold:	No data available
pH:	11-12
Melting point/melting range:	No information available
Boiling point/boiling range:	No information available
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid,gas):	N/A
Upper/lower flammability or explosive limits:	N/A
Auto ignition temperature:	N/A
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility in/Miscibility with water:	Miscible
Partition Coefficient n/octanol-water	N/A

Section 10: Stability and Reactivity

Reactivity:	See "Possibility of Hazardous Reactions"
Chemical stability:	This product is chemically stable under ambient conditions.
Possibility of Hazardous Reactions:	When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.
Conditions to avoid:	Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.
Incompatible materials:	Avoid acids or strong oxidizers when using or storing this product.
Hazardous decomposition products:	



Section 11: Toxicological Information

Potential routes of exposure/potential health effects

Oral LD50: See below
Dermal LD50: Based on ATE data, the classification criteria are not met. ATE > 5000 mg/kg
Vapor LC50: Based on ATE data, the classification criteria are not met. ATE > 20 mg

Component	LD50 (Oral)	LD50 (Dermal)	LD50 (Inhalation)
Potassium silicate	>5000 mg/kg (rat)	>5000 mg/kg (rabbit)	>2.06 g/m ³ (rat)

Toxicologically Synergistic Products: No data available
Skin: Will cause skin irritation, alkaline
Eye: Corrosive! Causes irritation of eyes, and with greater exposures, it can cause burns that may result in permanent impairment of vision, even blindness.
Inhalation: Inhalation of the mist may produce irritation of the respiratory tract
Ingestion: All symptoms of acute toxicity are due to high alkalinity.
Carcinogenicity: No components are listed as carcinogens by ACGIH, IARC, OSHA, or NTP.
Mutagenicity: Not known to have mutagenic effects in humans or animals.
Reproductive Effects: No known reproductive effects in humans or animals.
Specific target organ effects: No information available

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: Fish (Leuciscus idus) LC50 (48 hour) >146 mg/l
 Aquatic invertebrates: (Daphnia magna) EC50 (24 hour) >146 mg/l
Persistence/degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulation potential: Not expected to bioaccumulate

Section 13: Disposal Considerations (non-mandatory)

Disposal of Waste: Disposal should be in accordance with applicable, regional, national and local laws and regulations. Contact a licensed professional waste disposal service to dispose of this material.
RCRA: If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of: Corrosivity D002

Section 14: Transport Information (non-mandatory)

DOT: Not classified as hazardous material



Air transport ICAO-TI and IATA-DGR:

Not classified as hazardous material

IMDG

Not classified as hazardous material

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 355 (extremely hazardous substances):

Section 355 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the act and Title 40 of the Code of Federal Regulations, Part 372

SARA Section 313 (specific toxic chemical listings):

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories:

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

CWA:

This product as supplied does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA:

California Proposition 65:

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

International Information:



Section 16: Other Information

SDS date of preparation: 11/14/2022

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The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Remix Chemical and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.