



Alkaline Detergent

Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier used on the label : **Alkaline Detergent Concentrate, Low Foam**

Other means of identification : Alkaline Detergent
: 2191002, 2191005, 110-1530, 110-1531

Recommended use of the chemical and restrictions on use:

Instrument cleaner. Reserved for hospital and professional use only. Not for home use.

Name, address, and telephone number of the chemical manufacturer:

BELIMED INC.
1535 Hobby Street, Suite 103
N. Charleston, SC 29405 USA
Telephone Number for Information : 1-800-451-4118

Emergency telephone number

CHEMTREC : 1-800-424-9300 (24/7, US and Canada)

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture

Hazard Class	Hazard Category
SKIN IRRITATION	: 1A
EYE IRRITATION	: 1

Signal word, hazard statement(s), symbol(s) and precautionary statement(s)

Signal Word : DANGER

Hazard Statement(s) : H302 – Harmful if swallowed.
: H314 – Causes severe skin burns and eye damage.
: H318 – Causes serious eye damage.



Precautionary Statements

: Prevention
P260 – Do not breath mist, spray, vapors.
P264 – Wash hands and exposed areas thoroughly after handling.
P280 – Wear eye protection, protective gloves, face protection.
P301+P330+P331 – If SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P303+P361+ P353 – IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 – If INHALLED: Remove person to fresh air and keep comfortable for breathing.
P363 – Wash contaminated clothing before reuse.

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P310 – Immediately call a POISON CENTER or doctor/physician.
P501 – Dispose of contents and containers according to local regulations.

: **Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately contact physician or local poison control center.

IF ON SKIN (on hair): Immediately take off all contaminated clothing. Wash with plenty of water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person from exposure area to fresh air and keep at rest in a position comfortable for breathing. Immediately contact physician or local poison control center.

IF INGESTED: Do NOT induce vomiting. Transport to an emergency medical center. Never give anything by mouth to an unconscious person.

Storage

: Store in a cool, dry place. Keep partially-used containers closed and away from heat and humidity. Store away from incompatible substances and avoid extreme temperatures. Do not exceed storage temperature of 30 °C (86°F). Keep out of reach of children.

Disposal

: Dispose of contents/container according to federal, state, and local regulations.

Hazards not otherwise classified

: Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in accordance with local regulations.

Percentage of ingredient(s) with unknown toxicity

: None known.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with 29 CFR 1910.1200

Chemical Name	CAS Number (Unique Identifier)	Concentration	Classification §1910.1200
Potassium Hydroxide	1310-58-3	2.0 – 6.0%	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Corr. 1A, H314
Potassium Silicate	6834-92-0	5.0 – 10.0%	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

SECTION 4: FIRST AID MEASURES

Description of necessary measures

Inhalation: Remove from exposure area to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately and immediately call a POISON CONTROL.

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Skin contact: Immediately wash skin with water for at least 20 minutes while removing contaminated clothing. Seek medical attention if irritation persists.

Eye contact: Immediately flush with cool water for at least 20 minutes. Remove contact lenses, if present and easy to remove. Seek medical attention immediately and immediately call a POISON CONTROL.

Ingestion: Do NOT induce vomiting. Transport to an emergency medical center. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Inhalation: Corrosive. Burns in respiratory tract, shortness of breath.

Skin contact: Corrosive. Severe burns, redness.

Eye contact: Corrosive. Corneal damage, burning, redness, blurred vision.

Ingestion: Corrosive to mouth and throat and stomach.

Indication of any immediate medical attention and special treatment needed

After inhalation: Remove from exposure area to fresh air. Seek medical attention immediately.

After skin contact: Immediately wash off with plenty of water for at least 20 minutes while removing contaminated clothing. Use mild soap, if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persists.

After eye contact: Immediately flush eye, including under the eyelids, with water for at least 20 minutes. If able to do so, remove contact lenses while rinsing eye. Get medical attention.

After ingestion: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5: FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and surrounding environment such as water spray, fog, carbon dioxide, dry powder, or foam.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst and react with soft metals resulting in flammable hydrogen gas. Hazardous thermal decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides.

Special protective equipment and precautions for firefighters

As in any fire, wear a self-contained breathing apparatus (SCBA), approved according to NFPA / NIOSH or equivalent and full protective gear. Use water spray or fog for cooling exposed containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away from area. Put on appropriate personal protective equipment. Do not touch or walk through spilled material. Ventilate area.

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Environmental precautions

Avoid runoff into storm sewers, ditches, and waterways. Notify authorities if liquid enters sewers or public water.

Methods and materials for containment and cleaning up

Contain spills with an inert absorbent material (sand, earth, vermiculite) and place in container for disposal according to local and national regulations. Flush away traces with water and clean with mop or rags.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation. Avoid breathing vapors, spray, or mist. Do not get in eyes or on skin or clothing. Wear appropriate PPE.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place and well-ventilated area. Keep partially used containers closed and away from heat and humidity. Storage containers should be periodically checked for corrosion and integrity. Keep out of reach of children. Store away from incompatible substances and avoid extreme temperatures. **Incompatible materials:** Strong acid, strong bases, and strong oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
Potassium Hydroxide	2 mg/m ³	2 mg/m ³	Not Available	Not Available

Appropriate engineering controls

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of the potential exposure. Good general ventilation should be sufficient.

Individual protection measures

Respiratory: Use an approved respirator if exposure limits are exceeded.

Eye: Safety glasses are required.

Hand/Body: Wear suitable protective gloves such as rubber or neoprene. Gloves should be discarded or replaced if there is any indication of degradation or chemical breakthrough.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, Light Yellow, Liquid
Odor	: Mild solvent
Odor threshold	: Not available
pH	: 12.1 – 12.9 (neat)
pH	: 9.1 – 9.9 (1% solution)
Melting point / range	: Not available
Boiling point / range	: >212°F
Flash point	: Not determined
Evaporation rate	: Not determined
Flammable/Explosive limits - lower	: Not available
Flammable/Explosive limits - upper	: Not available
Vapor pressure	: Not determined
Vapor density	: Not determined

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Solubility in water	: Completely soluble
Partition coefficient (n-octanol/water)	: Not available
Autoignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
VOC content	: Not available
Density	: Not available
Relative Density	: Approximately 1.027 (Specific Gravity)

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No additional information available.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.
Conditions to avoid	: Avoid heating to very high temperatures.
Incompatible materials	: Strong acids. Soft metals. Bleach and chlorinated products. Other oxidizers, nitrocarbons, and chlorocarbons.
Hazardous decomposition products	: Hazardous thermal decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation: Corrosive. Burns in respiratory tract, shortness of breath.

Skin contact: Corrosive. Severe burns, redness.

Eye contact: Corrosive. Corneal damage, burning, redness, blurred vision.

Ingestion: Corrosive. Damages mucous membranes, severe burning of gastrointestinal tissues, nausea and intestinal pain, vomiting and possible death if swallowed.

Physical/Chemical: Not Available.

Other relevant toxicity information:

The use of this product by the end-user is safe under normal and reasonable foreseen use.

Numerical measures of toxicity, including delayed and immediate effect

This table shown below addresses the following toxicological endpoints, if applicable:

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single exposure)
Aspiration hazard

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Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Potassium Hydroxide	LD50 = 284 mg/kg (Rat)	Not Available

Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Not classified	Not classified	Not classified	Not classified

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive Toxicity : No known significant effects or critical hazards

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:

The following toxicity information is available for the hazardous ingredient(s) when used as technical grade. The product is anticipated to be safe for the environment at concentrations predicted in settings under normal use conditions.

Toxicity to fish:

The product is not anticipated to be toxic to fish. The following data is for the product tested in accordance with EPA-821-R-02-012 (Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms).

Hazardous substance	Parameter	Value	Exposure Time	Species
Product	LC50	750 mg/L	96 hrs.	Pimephales promelas

Toxicity to aquatic invertebrates:

The product end use dilutions are not anticipated to be toxic to aquatic invertebrates.

Toxicity to algae:

The product is not anticipated to be toxic to algae.

Persistence and degradability:

The majority of the components of this product are anticipated to be biodegradable.

Bioaccumulation Potential:

The bioaccumulation potential of this product are anticipated to be biodegradable.

Mobility:

The mobility of this product (in soil and in water) has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Number and Description : D002 (Corrosive)

Disposal considerations : This product is a RCRA hazardous material.

Disposal of products : Dispose of in an approved hazardous waste disposal facility and in accordance with federal, state, and local regulations.

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Disposal of packages : Do not reuse empty containers. Empty containers should be taken to an approved waste-handling facility for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

Land Transport (DOT) : Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG III
 : DOT Classification is UN3267.

Sea Transport (IMDG/IMO) : Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG III

Air transport (IATA) : Corrosive Liquid, Potassium Hydroxide Solution, 8, UN 1814, PG III

DOT Vessel Stowage Other : 52 – Stow “separated from” acids

SECTION 15: REGULATORY INFORMATION

Occupational Safety and Health Act:

Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Safety Data Sheets (SDSs) to provide information about any hazard that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information

TSCA 12 (b) Export Notification : All components are listed.
CERCLA/SARA Section 302 EHS : Does not contain any components with reportable quantities.
CERCLA/SARA Section 311/312 : Acute health hazard.
CERCLA/SARA Section 313 : Not Applicable
California Proposition 65 : None
California Cleaning Product Act to Know Act of 2017 (SB 258) : This product is labeled in compliance with CA SB258.

Chemical Name	CAS Registry Number	Functional Purpose	List(s)
Water	7732-18-5	Diluent	Not Applicable
Potassium Silicate	6834-92-0	Cleaning Agent	Not Applicable
Potassium Hydroxide	1310-58-3	Cleaning Agent	3
Gluconic Acid	526-95-4	Cleaning Agent	Not Applicable
Tetrasodium EDTA	144538-83-0	Chelating Agent	Not Applicable
DMDM Hydantoin	6440-58-0	Biocide	Not Applicable
Benzotriazole	Withheld	Corrosion Inhibitor	Not Applicable

*refer to www.belimed.com/en-us/solutions/consumables-protect for electronic links to designated lists

The ingredients of this product are reported on the following inventories:

TSCA 8 (b) Inventory Status

All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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SECTION 16: ADDITIONAL INFORMATION

NFPA health hazard: 3

NFPA fire hazard: 0

NFPA reactivity: 1

Additional information: Personal protection C

DISCLAIMER: The information provided on this sheet is not to be considered as warranty or quality specification. The information is given to provide general knowledge as to health and safety based on our understanding of safe handling, storage, transportation, disposal, and release. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or any process unless specified in the text.

This safety data sheet contains changes from the previous version in sections: 1, 9, 15

Prepared by: Belimed Inc.

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