Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

ALK-85 NF

Revision Date: 2024-12-16

SECTION 1: Identification

1.1 Product Identifier

Trade Name	**ALK-85 NF**
Product Number	88-00005

1.2 Relevant Identified Uses

Relevant Identified Uses	Alkaline CIP Detergent

1.3 Details of the Supplier of the Safety Data Sheet

Triton
21365 Hamburg Ave
Lakeville, MN 55044
United States

Telephone: (952)-985-9993
e-mail: communications@brewerychemicals.com
Website: https://brewerychemicals.com

1.4 Emergency Telephone Number

Emergency Information Service	ChemTrec 1-800-424-9300

SECTION 2: Hazard(s) Identification

2.1 Classification of the Substance

Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Hazard Statement	Hazard Class	Category
H302	acute toxicity (oral)	4
H314	skin corrosion/irritation	1B
H318	serious eye damage/eye irritation	1

Employ good industrial hygiene practice

2.2 Label Elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal Word **DANGER**

- Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

- Precautionary Statements

P260	Do not breathe dusts or mists.
P270	Do not eat, drink or smoke when using this product.
P280	Wear eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

2.3 Other Hazards

Hazards Not Otherwise Classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Description of the Mixture

Name of Substance	CAS No	Wt%
Water	7732-18-5	50 – < 75
Sodium hydroxide	1310-73-2	25 – < 50
D-Gluconic acid	526-95-4	1 – < 5

SECTION 4: First-Aid Measures

4.1 Description of First-Aid Measures

General Notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following Inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following Skin Contact

Wash with plenty of soap and water.

Following Eye Contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.

Following Ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and effects are not known to date.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

5.2 Special Hazards Arising from the Substance or Mixture

Contact with metals may emit flammable hydrogen gas.

5.3 Fire-Fighting Measures

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel

Remove persons to safety.

For Emergency Responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental Precautions

Do not empty into drains, surface water or soil. If the product has entered a water course, sewer or soil, inform the responsible authority.

6.3 Methods and Material for Containment and Cleaning Up

Advice on How to Contain a Spill

Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Advice on How to Clean Up a Spill

Collect spillage. Ensure good ventilation and exhaustion. Place in appropriate containers for disposal.

6.4 Reference to Other Sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Measures to Prevent Fire as well as Aerosol and Dust Generation

Use local and general ventilation. Use only in well-ventilated areas. Never add water to this product.

- Handling of Incompatible Substances or Mixtures

Do not mix with acids.

Advice on General Occupational Hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Packaging Compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limit Values (Workplace Exposure Limits)

Country	Name of Agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	sodium hydroxide	1310-73-2	REL						2		NIOSH REL
US	sodium hydroxide	1310-73-2	TLV®						2		ACGIH® 2024
US	sodium hydroxide	1310-73-2	PEL		2						29 CFR 1910.1000
US	sodium hydroxide (caustic soda)	1310-73-2	PEL (CA)						2		Cal/OSHA PEL

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

8.2 Exposure Controls

Appropriate Engineering Controls

General ventilation.

Individual Protection Measures (Personal Protective Equipment)

Eye/Face Protection

Wear eye/face protection.

Skin Protection

- Hand Protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Body Protection

Wear suitable protective clothing. Wear suitable face shield.

- Other Protection Measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Environmental Exposure Controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance

Physical State	Liquid
Color	Amber
Foam Color	None

Fragrance	None

Other safety parameters

pH (value)	14 (base)
Melting Point/Freezing Point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash Point	No Data Available
Evaporation rate	No Data Available
Flammability (solid, gas)	No Data Available
Vapor pressure	No Data Available
Density	1.442 $^{g}/_{ml}$

Solubility(ies)

- Water solubility	Miscible in Any Proportion

Viscosity

- Kinematic viscosity	No Data Available
Oxidizing Properties	None

9.2 Other Information

There Is No Additional Information

SECTION 10: Stability and Reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical Stability

See below "Conditions to avoid".

10.3 Possibility of Hazardous Reactions

No known hazardous reactions.

10.4 Conditions to Avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible Materials

Acids, Strong Oxidizers, Reducing Agents, Metals

Release of flammable materials with:

Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous Decomposition Products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Test data are not available for the complete mixture.

Classification Procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification Acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute Toxicity

Harmful if swallowed.
GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute Toxicity Estimate (ATE)

Oral	814.8 $^{mg}/_{kg}$

Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or Skin Sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ Cell Mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive Toxicity

Shall not be classified as a reproductive toxicant.

Specific Target Organ Toxicity - Single Exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific Target Organ Toxicity - Repeated Exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration Hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological Information

12.1 Toxicity

Harmful to aquatic life.

12.2 Persistence and Degradability

No Data Available.

12.3 Bioaccumulative Potential

No Data Available.

12.4 Mobility in Soil

No Data Available.

12.5 Other Adverse Effects

No Data Available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Sewage Disposal-Relevant Information

Do not empty into drains. Avoid release to the environment.

Waste Treatment of Containers/Packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport Information

14.1 UN Number, Proper Shipping Name, Class and Packing Group

Domestic Ground Non-Bulk Shipments

UN1824, SODIUM HYDROXIDE SOLUTIONS, 8, II

14.2 Special precautions for user

There Is No Additional Information.

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Reportable quantity (RQ) of ALK-85 NF 2,507 lbs (Sodium hydroxide)

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations Specific for the Product in Question

National Regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of Substance	CAS No	Final RQ pounds (Kg)
Sodium hydroxide	1310-73-2	1000 (454)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of Substance	CAS No	Functionality	Authoritative Lists
Sodium hydroxide	1310-73-2	alkaline builder	OEHHA RELs

- Toxic or Hazardous Substance List (MA-TURA)

Name of Substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Sodium hydroxide	1310-73-2				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of Substance	CAS No	References	Remarks
Sodium hydroxide	1310-73-2	A, N, O	

Legend

A	American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
N	National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
O	Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of Substance	CAS No	Remarks	Classifications
Sodium hydroxide	1310-73-2		CO R1

Legend

CO	Corrosive
R1	Reactive - First Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
SODIUM HYDROXIDE (NA(OH))	1310-73-2	E

Legend

E	Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of Substance	CAS No	References
Sodium hydroxide	1310-73-2	T, F
Sodium hydroxide	1310-73-2	T, F
Sodium hydroxide	1310-73-2	T, F

Legend

F	Flammability (NFPA®)
T	Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or Sector Specific Available Guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating
Chronic	/
Health	3
Flammability	0
Physical hazard	0
Personal protection	-

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard
Flammability	0
Health	3
Instability	0
Special hazard	

National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed (ACTIVE)

Legend

TSCA	Toxic Substance Control Act

SECTION 16: Other Information, Including Date of Preparation or Last Revision

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Classification Procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based on the present state of our knowledge and does not constitute an assurance of product properties nor establishes contract legal rights. All data about health and safety are only for information. They should therefore not be construed as specifications. This SDS has been compiled and is solely intended for this product.