

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: NF High pH CIP

Description: Alkaline Non-foaming CIP

Company Identification: Solutions² LLC
1621 N. 1st St.
Winterset, IA 50273
Phone: 515-493-1153
Website: www.Solutions2llc.com



Company Emergency Telephone Number: CHEMTREC 1-800-424-9300

SECTION II: HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION

Skin Corrosion/Irritation: Category 1A

Eye Damage/Eye Irritation: Category 1

Hazardous to the Aquatic Environment, Acute Hazard: Category 3

GHS LABEL ELEMENTS

Signal Word: **Danger**

Hazard Pictogram:



Hazard Statements: Causes severe skin burns and eye damage.
Causes serious eye damage.
Harmful to aquatic life.

Precautionary Statements

Prevention: Do not breathe dust/fumes/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep in original or other corrosion resistant container.
Avoid release to the environment.

Response: Immediately call a POISON CENTER or doctor/physician.

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

Skin: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

Inhalation: IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Spill: Absorb spillage to prevent material damage.

Storage: Store locked up.
Store in a corrosive resistant container.

Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Classified: Not applicable.

Additional Information: Corrosive.
Keep out of reach children.
Harmful contact may not cause immediate pain.
Harmful or fatal if swallowed.
Discard contaminated shoes/boots.
Inhalation of vapors/mist may cause respiratory irritation or damage.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight - %
Sodium Hydroxide	1310-73-2	40-50%
Sodium Glucoheptonate	31138-65-5	1-6%

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

Eye Contact: Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical assistance immediately.

Skin Contact: Immediately remove all contaminated clothing. Rinse with water or shower for at least 15 minutes. If irritation persists, IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

Inhalation: Move victim to fresh air and keep at rest in a comfortable position for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

Ingestion: Rinse mouth. DO NOT INDUCE VOMITING. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION V: FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, foam, dry chemical powder, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher as this will spread the fire.

Specific Hazards from the Chemical: During fire, gases hazardous to health may be formed.

General Fire Hazards: No unusual fire or explosion hazards noted.

Protective Equipment / Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, or clothing. Use personal protective equipment as required.

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Cleaning Up: If safe to do so, prevent further leakage or spillage. Contain and collect spillage with non-combustible absorbent material. Place in container for disposal according to local/national regulations (see Section 13).

SECTION VII: HANDLING AND STORAGE

Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Storage Conditions for Safe Storage, Including any Incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see Section 10).

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium Hydroxide	Ceiling: 2 mg/m ³	2 mg/m ³ Ceiling / 2 mg/m ³ (TWA)	Ceiling: 2 mg/m ³

Engineering Controls: Ensure good general ventilation. Eye wash stations and shower facilities should be readily accessible in areas where product is handled.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear splash goggles. For product usage over head wear a face shield over goggles.

Skin/Body Protection: Wear rubber or other chemical resistant gloves. Use of apron, boots and other protective equipment should be considered to prevent or minimize product exposure.

Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use MSHA/NIOSH approved respirator according to conditions and chemicals in Section 3.

General Hygiene: Wash hands and any other exposed skin thoroughly after handling. For further guidance reference 29 CFR 1910.132-138.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Color	Liquid / Dark Brown
Odor	Odorless
pH	14.0
Melting Point / Freezing Point	No information available
Boiling Point / Boiling Range	> 212° F
Flash Point	> 100° C / > 212° F
Evaporation Rate	No information available
Flammability (Solid, gas)	No information available
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.463
Solubility(ies)	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

SECTION X: STABILITY AND REACTIVITY

Reactivity: Reacts violently with strong acids. May react with oxidizing agents.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reaction: Hazardous polymerization does not occur.

Conditions to Avoid: Do not mix with other chemicals. Avoid contact with incompatible materials.

Incompatible Material: Acids, oxidizing agents, halogenated materials, prolonged contact with alkali sensitive metals or alloys.

Hazardous Decomposition: Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Oxides of Sodium.

SECTION XI: TOXICOLOGICAL INFORMATION

Component Acute Toxicity:

Chemical Name	Oral LD50	Dermal LD50
Sodium Hydroxide	6,600 (Mouse)	1,350 mg/kg (Rabbit)
Sodium Glucoheptonate	4,000 mg/kg (Rat)	4,000 mg/kg (Rat)

Note: When no specific route LD50 available for acute toxin, the converted acute toxin point estimate was used for ATE.

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

SYMPTOMS OF EXPOSURE

Eye Contact: Pain, swelling, redness of the conjunctiva and tissue damage. Contact with eye may result in permanent damage.

Skin Contact: Pain, blistering, redness and possible chemical burn.

Inhalation: Irritation or damage to the mucus membranes of respiratory tract. Coughing and nasal discomfort.

Ingestion: Damage or chemical burns to mouth, throat, and stomach. Pain, vomiting, nausea and diarrhea.

IMMEDIATE, DELAYED, CHRONIC EFFECTS

Product Information: Data not available or insufficient.

Target Organ Effects: Eyes, Respiratory System, Skin.

Carcinogenicity: No components present at 0.1% or greater are listed to be carcinogens by ACGIH, IARC, NTP or OSHA.

SECTION XII: ECOLOGICAL INFORMATION

Ecotoxicity:

Chemical Name	Algae/Aquatic Plants	Fish	Microtoxicity	Crustacea
Sodium Hydroxide		125 mg/l, 96 hours		34.59-47.13 mg/l, 48 hours

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal of Waste: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT

UN/ID #: 1760

Proper Shipping Name: Copmound, Cleaning Liquid (Sodium Hydroxide Solution)

Hazard Class: 8

Packing Group: II

SECTION XV: REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory):

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

CERCLA: Sodium Hydroxide (CAS 1310-73-2) 1,000 lbs.

SARA 313: This product does not contain listed substances above the "de minimus" level.

SARA 311/312 Hazard Categories:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: Yes

California Proposition 65: This product does not contain any Proposition 65 chemicals.

SECTION XVI: OTHER INFORMATION

Issue Date: 06/01/15

HAZARD RATINGS:

Version #: 1

NFPA:	Health: 3	Flammability: 0	Reactivity: 1
HMIS:	Health: 3	Flammability: 0	Physical Hazard: 1

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