

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SHINY-SIDE
Recommended use Cleaning agent
Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 0505
Chemical nature Alkaline aqueous solution
Emergency Telephone Number
 CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER
 Corrosive
 Causes skin and eye burns
 Harmful if inhaled and may cause delayed lung injury
 Harmful or fatal if swallowed

Color Red **Physical State** Liquid **Odor** Odorless
Potential Health Effects
Principle Route of Exposure Skin contact, Eye contact, Inhalation, (mist).
Primary Routes of Entry None known
Acute Effects
Eyes Corrosive to the eyes and may cause severe damage including blindness.
Skin Causes skin burns.
Inhalation Harmful by inhalation. Causes burns.
Ingestion If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May be fatal if swallowed.
Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs.
Target Organ Effects Eyes, Skin, Respiratory system.
Aggravated Medical Conditions Skin disorders, Respiratory disorders.
Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium hydroxide	1310-73-2
Tetrasodium ethylenediaminetetraacetate	64-02-8

4. FIRST AID MEASURES

General Advice Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to Physician The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup
Autoignition Temperature No information available.
Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4
Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards arising from the chemical Contact with metals may evolve flammable hydrogen gas. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Health 3 **Flammability** 1 **Instability** 0
HMIS Health 3 **Flammability** 1 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective gloves/clothing. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions Do not flush into surface water or sanitary sewer system.
Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up Pick up and transfer to properly labeled containers.
Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Storage	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist. Keep container tightly closed in a dry and well-ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	110 °F / 43 °C
Storage Conditions	Indoor	X	Outdoor	
			Heated	
				Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Tetrasodium ethylenediaminetetraacetate	No data available	No data available	No data available

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles. Face-shield.

Skin Protection

Wear suitable protective clothing, Impervious gloves.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Red	Odor	Odorless
Appearance	Transparent	pH	13.3
Specific Gravity	1.175	Evaporation Rate	0.6 (Butyl acetate=1)
Percent Volatile (Volume)	81.6	VOC Content (%)	0
Vapor Pressure	14.52 mmHg @ 70°F	Vapor Density	0.6
Solubility	Completely soluble	Boiling Point/Range	> 212 °F / 100 °C

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Hazardous polymerization does not occur.

Conditions to Avoid

None known

Incompatible Products

Oxidizing agents, Acids, Aldehydes, Halogenated hydrocarbon, Acid anhydrides, Organic materials, Contact with metals liberates hydrogen gas.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Sodium oxides, Ammonia, Hydrogen, by reaction with metals.

Possibility of Hazardous Reactions

None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium hydroxide	no data available	= 1350 mg/kg (Rabbit)	no data available	no data available	no data available
Tetrasodium ethylenediaminetetraacetate	= 10 g/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Tetrasodium ethylenediaminetetraacetate	no data available	no data available	no data available	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Tetrasodium ethylenediaminetetraacetate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium hydroxide	no data available	LC50 = 45.4 mg/L <i>Oncorhynchus mykiss</i> 96 h	no data available	no data available	N/A
Tetrasodium ethylenediaminetetraacetate	EC50 = 1.01 mg/L <i>Desmodesmus subspicatus</i> 72 h	LC50 = 41 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 59.8 mg/L <i>Pimephales promelas</i> 96 h	no data available	= 610 mg/L 24 h	N/A

Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Caustic alkali liquids, n.o.s.
Hazard Class	8
UN-No	UN1719
Packing Group	III
Description	Caustic alkali liquids, n.o.s.(Sodium hydroxide),8,UN1719,PG III

TDG

Proper shipping name	Caustic alkali liquid, n.o.s.
Hazard Class	8
UN-No	UN1719
Packing Group	III
Description	CAUSTIC ALKALI LIQUID, N.O.S.(Sodium hydroxide),8,UN1719,PG III

ICAO

UN-No	UN1719
Proper Shipping Name	Caustic alkali liquid, n.o.s.*
Hazard Class	8
Packing Group	III
Shipping Description	Caustic alkali liquid, n.o.s., (Sodium hydroxide),8,UN1719,PG III

IATA

UN-No	UN1719
Proper Shipping Name	Caustic alkali liquid, n.o.s.*
Hazard Class	8
Packing Group	III
ERG Code	8L
Shipping Description	UN1719,Caustic alkali liquid, n.o.s.,(Sodium hydroxide),8,PG III

IMDG/IMO

Proper Shipping Name	Caustic alkali liquid, n.o.s.
Hazard Class	8
UN-No	UN1719
Packing Group	III
EmS No.	F-A, S-B
Shipping Description	UN1719, Caustic alkali liquid, n.o.s.(Sodium hydroxide),8,PG III

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

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 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	No

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	Not applicable	Not applicable
Tetrasodium ethylenediaminetetraacetate	Not applicable	Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material



16. OTHER INFORMATION

Prepared By	Mike McDowell
Supersedes Date	09/03/2008
Issuing Date	03/23/2011
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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