

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
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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
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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.
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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.
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Component Information

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

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Persistence and Degradability

Bioaccumulation

Mobility

No information available.

No information available.

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Container Disposal

Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Hazard Class

UN-No

Packing Group

Description

Caustic alkali liquids, n.o.s.

8

UN1719

III

Caustic alkali liquids, n.o.s.(Sodium hydroxide),8,UN1719,PG III

TDG

Proper shipping name

Hazard Class

UN-No

Packing Group

Description

Caustic alkali liquid, n.o.s.

8

UN1719

III

CAUSTIC ALKALI LIQUID, N.O.S.(Sodium hydroxide),8,UN1719,PG III

ICAO

UN-No

Proper Shipping Name

Hazard Class

Packing Group

Shipping Description

UN1719

Caustic alkali liquid, n.o.s.*

8

III

Caustic alkali liquid, n.o.s., (Sodium hydroxide),8,UN1719,PG III

IATA

UN-No

Proper Shipping Name

Hazard Class

Packing Group

ERG Code

Shipping Description

UN1719

Caustic alkali liquid, n.o.s.*

8

III

8L

UN1719,Caustic alkali liquid, n.o.s.,(Sodium hydroxide),8,PG III

IMDG/IMO

Proper Shipping Name

Hazard Class

UN-No

Packing Group

EmS No.

Shipping Description

Caustic alkali liquid, n.o.s.

8

UN1719

III

F-A, S-B

UN1719, Caustic alkali liquid, n.o.s.(Sodium hydroxide),8,PG III

15. REGULATORY INFORMATION

Inventories

TSCA

DSL

Complies

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 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

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16. OTHER INFORMATION

Prepared By	Mike McDowell
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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