

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSEARCH 8500MTP
Recommended use Water treatment chemical
Information on Manufacturer
 CHEMSEARCH DIV. OF NCH CORP.
 BOX 152170
 IRVING, TX 75015

Product Code 0329
Chemical nature Aqueous solution of alkali salts
Emergency Telephone Number
 CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
DANGER
 Corrosive
 Causes skin and eye burns
 May cause allergic skin reaction
 May cause delayed lung injury and burns
 Harmful or fatal if swallowed

Color Yellow **Physical State** Liquid **Odor** Slight sweet
Potential Health Effects
Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry None known
Acute Effects
Eyes Corrosive to the eyes and may cause severe damage including blindness.
Skin Causes skin burns. May cause allergic skin reaction.
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.
Chronic Toxicity Inhaled corrosive substances can lead to a toxic edema of the lungs. May cause sensitization by skin contact.
Target Organ Effects Respiratory system, Immune system, Skin.
Aggravated Medical Conditions Respiratory disorders, Skin disorders.
Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium hydroxide	1310-73-2
Acrylic copolymer, sulfonated, sodium salt	4236291-40-5
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	29329-71-3
Sodium zincate	12179-14-5
Sodium sulfate	7757-82-6
Sodium molybdate	7631-95-0

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 not breathing, give 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. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable
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 Use personal protective equipment. Ensure adequate ventilation. 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	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
Storage	Store in original container. Keep containers tightly closed in a dry, cool 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 45 °F / 7 °C Maximum 105 °F / 41 °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
Acrylic copolymer, sulfonated, sodium salt	No data available	No data available	No data available
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	No data available	No data available	No data available
Sodium zincate	No data available	No data available	No data available
Sodium sulfate	No data available	No data available	No data available
Sodium molybdate	TWA: 0.5 mg/m ³	TWA: 5 mg/m ³	IDLH: 1000 mg/m ³

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
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	Yellow	Odor	Slight sweet
Appearance	Transparent - Cloudy	pH	14
Specific Gravity	1.209	Evaporation Rate	0.46 (BuAc = 1)
Percent Volatile (Volume)	86.6	VOC Content (%)	0
VOC Content (g/L)	0	Vapor Pressure	13.8 mmHg @ 70°F
Vapor Density	0.6 (Air = 1.0)	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	Strong oxidizing agents, Strong acids, Halogenated hydrocarbon, Contact with metals liberates hydrogen gas.
Hazardous Decomposition Products	Carbon oxides, Oxides of phosphorus, Sodium oxides, Sulfur oxides, Zinc oxide fumes, 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
Acrylic copolymer, sulfonated, sodium salt	no data available	no data available	no data available	no data available	no data available
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	no data available	no data available	no data available	no data available	no data available
Sodium zincate	no data available	no data available	no data available	no data available	no data available
Sodium sulfate	> 10000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Sodium molybdate	= 4 g/kg (Rat)	no data available	> 2080 mg/m ³ (Rat) 4 h	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
Acrylic copolymer, sulfonated, sodium salt	no data available	X	no data available	no data available	Immune system
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	no data available	no data available	no data available	no data available	no data available
Sodium zincate	no data available	no data available	no data available	no data available	no data available
Sodium sulfate	no data available	no data available	no data available	no data available	Respiratory system
Sodium molybdate	no data available	no data available	no data available	no data available	Bones, CNS, kidneys, liver, blood

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Acrylic copolymer, sulfonated, sodium salt	not applicable	not applicable	not applicable	not applicable	not applicable
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium zincate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium sulfate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium molybdate	A3	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 Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Acrylic copolymer, sulfonated, sodium salt	no data available	no data available	no data available	no data available	N/A
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	no data available	no data available	no data available	no data available	N/A
Sodium zincate	no data available	no data available	no data available	no data available	N/A
Sodium sulfate	no data available	LC50 13500 - 14500 mg/L Pimephales promelas 96 h LC50 3040 - 4380 mg/L Lepomis macrochirus 96 h LC50 = 13500 mg/L Lepomis macrochirus 96 h LC50 > 6800 mg/L Pimephales promelas 96 h	no data available	EC50= 2564 mg/L 48 h EC50= 630 mg/L 96 h	N/A
Sodium molybdate	no data available	no data available	no data available	no data available	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 Sodium hydroxide solution
Hazard Class 8
UN-No UN1824
Packing Group II
Description Sodium hydroxide solution,8,UN1824,PG II

TDG

Proper shipping name Sodium hydroxide solution
Hazard Class 8
UN-No UN1824
Packing Group II
Description SODIUM HYDROXIDE SOLUTION,8,UN1824,PG II

ICAO

UN-No UN1824
Proper Shipping Name Sodium hydroxide solution
Hazard Class 8
Packing Group II
Shipping Description Sodium hydroxide solution,8,UN1824,PG II

IATA

UN-No UN1824
Proper Shipping Name Sodium hydroxide solution
Hazard Class 8
Packing Group II
ERG Code 8L
Shipping Description UN1824,Sodium hydroxide solution,8,PG II

IMDG/IMO

Proper Shipping Name Sodium hydroxide solution
Hazard Class 8
UN-No UN1824
Packing Group II
EmS No. F-A, S-B
Shipping Description UN1824, Sodium hydroxide solution,8,PG II

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Sodium zincate	12179-14-5	1-5	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable
Acrylic copolymer, sulfonated, sodium salt	Not applicable	Not applicable
Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt	Not applicable	Not applicable
Sodium zincate	Not applicable	Not applicable
Sodium sulfate	Not applicable	Not applicable
Sodium molybdate	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, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By Rachael Mohochi
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 Issuing Date 02/06/2012
 Reason for Revision No information available.
 Glossary No information available.
 List of References. No information available.

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