Safety Data Sheet: CHEMSEARCH 100

Supercedes Date 10/27/2017 **Issuing Date 11/13/2018**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSEARCH 100 Recommended use Water treatment chemical Information on Manufacturer CHEMSEARCH FE DIV. OF NCH CORP.

BOX 152170 **IRVING, TX 75015**

Product Code 0042 Chemical nature Aqueous solution of alkali salts **Emergency Telephone** CHEMTREC® 800-424-9300 Telephone inquiry

2. HAZARD IDENTIFICATION

972-579-2477

Category 1

Color Straw to Light amber Physical state Liquid **Odor** Slightly Ammoniacal

GHS

Classification

Physical Hazards

Corrosive to Metals Category 1

Health Hazard

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation Category 1 Respiratory Sensitization Category 1B

Other hazards

None

Labeling Signal Word





Hazard statements

H314 - Causes severe skin burns and eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if P264 - Wash face, hands and any exposed skin thoroughly after handling. inhaled

H290 - May be corrosive to metals

Precautionary Statements

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P260 - Do not breathe mist

P285 - In case of inadequate ventilation wear respiratory protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P332 + P313 - If skin irritation occurs, get medical attention.

P363 - Wash contaminated clothing before reuse

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 physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a

physician if unwell.

P390 - Absorb spillage to prevent damage.

P406 - Store in a corrosion-resistant container.

P501 - Dispose of contents and container in accordance with applicable local

regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium sulfite	7757-83-7	3-7
Sodium hydroxide	1310-73-2	3-7

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe 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 by inhalation.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash Method No data available

Flammability Limits in Air %: Hydrogen, by reaction with Upper: 75 Lower: 4

metals.

Suitable Extinguishing Media

Water spray. Foam. Carbon dioxide (CO2). 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, NOHSC (approved or equivalent) and full protective gear.

NFPA Health 3 Flammability 0 Instability 0
HMIS - Health 3 Flammability 0 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 precautionsDo 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 mist.

Storage Storage Store in original container. Metal containers must be lined. Keep containers tightly closed in a dry,

cool and well-ventilated place. Freezing will affect the physical condition but will not damage the

material. Thaw and mix before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	10 mg/m ³
			Ceiling: 2 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 Ensure that eyewash stations and safety showers are close to the workstation location. Remove

and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical stateLiquidViscosityNon viscousColorStraw to Light amberOdorSlightly AmmoniacalOdor ThresholdNot applicableAppearanceNo information available.

 pH
 13.5
 Specific Gravity
 1.156

 Evaporation Rate
 0.51 (Butyl acetate=1)
 Percent Volatile (Volume)
 90

 VOC Content (%)
 0.5
 VOC Content (g/L)
 5.8

Vapor Pressure 14.68 Vapor Density 0.6 (Air = 1.0)n-Octanol/Water Partition No data available Solubility Soluble in water Melting Point/Range No data available **Decomposition Temperature** No data available **Boiling Point/Range** Not applicable Flammability (solid, gas) No data available **Flash Point** Does not flash Method No data available

Autoignition Temperature No information available.

Flammability Limits in Air %: Hydrogen, by reaction with metals Upper: 75 Lower: 4

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid None known.

Incompatible Products Strong oxidizing agents, Alkalis, Strong acids, Metals, Strong

bases, Nitrates, Nitrites.

Decomposition TemperatureNo data available

Hazardous Decomposition Products Carbon oxides, Sodium oxides, Sulfur oxides, Phosphorus

compounds, Oxides of phosphorus, Metal oxides, Ammonia, Nitrogen oxides (NOx), Halogenated compounds, Hydrogen, by reaction with

metals.

Possibility of Hazardous Reactions

None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available
Dermal LD50 No information available

Inhalation LC50

Gas No information available
Mist No information available
Vapor No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Skin Absorption, Skin contact, Ingestion.

Acute Effects:

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Causes skin burns.

Inhalation Harmful by inhalation. Causes burns. May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

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

inhalation.

Target Organ Effects: Skin, Eyes, Respiratory system, Immune system.

Aggravated Medical Conditions Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Addic Toxidity					
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Sodium sulfite 7757-83-7	= 820 mg/kg (Rat)	no data available	> 22 mg/L (Rat) 1 h	No data available	No data available
Sodium hydroxide 1310-73-2	No data available	= 1350 mg/kg (Rabbit)	No data available	No data available	No data available

Chronic Toxicity

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium sulfite 7757-83-7	No data available	respiratory sensitization	No data available	No data available	Immune system
Sodium hydroxide 1310-73-2	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA	Other
Sodium sulfite	Not applicable	Group 3	Not applicable	Not applicable	Not applicable
7757-83-7					

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition
					coefficien
Sodium sulfite	No information available.	No information available.	EC50 = 770 mg/L 17 h	No information available.	-4
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus	No information available	No information available.	N/A
		mykiss 96 h			

Persistence and Degradability
Bioaccumulation
Mobility
No information available.
No information available.
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. Do not re-use

empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8 UN-No UN1824

Packing Group

Description UN1824, SODIUM HYDROXIDE SOLUTION, 8, 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 ||

Shipping Description UN1824, SODIUM HYDROXIDE SOLUTION, 8, PG II

IATA

UN-No UN1824

Proper Shipping Name SODIUM HYDROXIDE SOLUTION

Hazard Class 8
Packing Group || ERG-Code 8L

Shipping Description UN1824, SODIUM HYDROXIDE SOLUTION, 8, PG II

IMDG/IMO

UN proper shipping name SODIUM HYDROXIDE SOLUTION

Hazard Class 8 UN Number U

UN Number UN1824
Packing Group II
EmS No. F-A, S-B

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Pamela Starkey
Supercedes Date 10/27/2017
Issuing Date 11/13/2018

Reason for RevisionNo information available.GlossaryNo information available.List of References.No information available.

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