

CUSTOMER: 280510

ORDER #: 308504

BATCH #: 110980008

STICKER #: 110980120

ZONE #:BB

BARCODE #:9611019095150215997669

PRODUCT NAME: CHEMSEARCH 999

Material Safety Data Sheet: CHEMSEARCH 999

Issuing Date 02/09/2009

Supersedes Date Not applicable

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSEARCH 999
Product Code 1748
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Recommended Use Water treatment chemical
Chemical Nature Aqueous solution of alkali salts
Emergency Telephone Number
CHEMTEC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
Warning
Severe skin irritation
Severe eye irritation
May be harmful if inhaled
Harmful if swallowed

Color Light yellow

Physical State Liquid

Odor Odorless

Potential Health Effects

Principle Route of Exposure

Skin contact, Eye contact.

Primary Routes of Entry

Inhalation, Ingestion.

Acute Effects

Eyes

Severe eye irritant.

Skin

Severe skin irritant.

Inhalation

Irritating to respiratory system. Methemoglobinemia. Blood disorder may occur after prolonged inhalation.

Ingestion

Irritating to mucous membranes. Toxic if swallowed. Blood disorder may occur after ingestion. Components of the product create formation of methemoglobin.

Chronic Effects

Methemoglobinemia.

Target Organ Effects

Respiratory system, Skin, Blood, spleen, Heart, Liver, Kidney, Central nervous system.

Aggravated Medical Conditions

Cardiovascular. Skin disorders. Respiratory disorders. Blood disorders. Liver disorders. Kidney disorders.

Potential Environmental Effects

See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Table with 2 columns: Component, CAS-No. Rows include Sodium hydroxide, Sodium nitrite, and Sodium tetraborate.

4. FIRST AID MEASURES

General Advice

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, mist or gas.

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

Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before re-use.

Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

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

Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures.

5. FIRE-FIGHTING MEASURES

Flash Point

Not combustible

Method

Set a closed cup

Autoignition Temperature No information available

Flammability Limits in Air % Not applicable

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

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 2 Flammability 0 Instability 0 Other OX

HMS Health 2 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. 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	Neutralize with hydrochloric acid

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists.			
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze.			
Storage Temperature	Minimum	35°F / 2°C	Maximum	115°F / 46°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
Sodium nitrite	No data available	no data available	no data available
Sodium tetraborate	TWA: 2 mg/m ³ STEL: 6 mg/m ³	no data available	TWA: 1 mg/m ³

Engineering Measures

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

Personal Protective Equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin Protection

Impervious gloves. Impervious clothing.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective gloves/clothing. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Light yellow	Odor	Odorless
Appearance	Transparent	pH	11.8
Specific Gravity	1.21	Bulk Density	10.09
Evaporation Rate	0.44	Percent Volatile (Volume)	84.4
VOC Content (%)	0	VOC Content (g/l)	0
Vapor Pressure	13.2 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

Strong oxidizing agents. Reducing agents. Avoid amines.

Hazardous Decomposition Products

Sodium oxides. Nitrogen oxides (NOx).

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	Dralze Test	Other
Sodium hydroxide	no data available	1350 mg/kg (Rabbit)	no data available	no data available	no data available
Sodium nitrite	85 mg/kg (Rat)	no data available	5.5 mg/L (Rat) 4 h	no data available	no data available
Sodium tetraborate	2403 mg/kg (Rat)	2000 mg/kg (Rabbit)	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, skin, respiratory system
Sodium nitrite	no data available	no data available	no data available	no data available	liver, kidneys, nervous system, spleen, blood, heart
Sodium tetraborate	no data available	no data available	no data available	no data available	respiratory system, skin, eyes

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
Sodium nitrite	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium tetraborate	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 Oncofynchus mykiss 96 h	no data available	no data available	N/A
Sodium nitrite	no data available	LC50= 0.19 mg/L Oncofynchus mykiss 96 h	no data available	no data available	-3.7
Sodium tetraborate	EC50= 158 mg/L Scenedesmus subspicatus 96 h	LC50= 340 mg/L Limanda limanda 96 h	no data available	LC50 1085 - 1402 mg/L 48 h	N/A

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

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of as hazardous waste in compliance with local and national regulations
Container Disposal Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT DOT
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S., (SODIUM NITRITE)
UN-No UN3082
Packing Group III
Reportable Quantity (RQ) RQ @ 400lbs
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S.,(SODIUM NITRITE), 9,III

TDG TDG

ICAO ICAO

IATA IATA

IMDG/IMO IMDG/IMO

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 nitrite	7632-00-0	10-30	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
Sodium nitrite	100 lb	Not applicable
Sodium tetraborate	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

D1B Toxic materials, C Oxidizing materials.



16. OTHER INFORMATION

Prepared By Mike McDowell
Supersedes Date Not applicable
Issuing Date 02/09/2009
Reason for Revision No information available
Glossary No information available
List of References No information available

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