1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEMSEARCH 565
Recommended use water treatment chemical

Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 0685
Chemical nature aqueous dispersion

Emergency Telephone Number
CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER
Corrosive
The product causes burns of eyes, skin and mucous membranes
Harmful if inhaled
Harmful or fatal if swallowed

Color Pale Yellow **Physical State** Liquid **Odor** Ammoniacal

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact.
Primary Routes of Entry	Inhalation, Ingestion.
Acute Effects	
Eyes	Causes burns. Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes burns.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.
Chronic Toxicity	Methemoglobinemia.
Target Organ Effects	Respiratory system, Blood, Central nervous system, Heart, Liver, Lungs, Kidney, Spleen.
Aggravated Medical Conditions	Respiratory system, Skin disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium nitrite	7632-00-0
Sodium hydroxide	1310-73-2

4. FIRST AID MEASURES

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention immediately.
Inhalation	Move to fresh air. If breathing has stopped, apply artificial respiration. In case of shortness of breath, give oxygen. Get medical attention immediately.
Ingestion	Drink plenty 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. **Upper** 75.0 **Lower** 4.0

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam. Alcohol-resistant foam. Dry chemical. Water spray. Carbon dioxide (CO2).

Specific hazards arising from the chemical
The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes .

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** 1	**Other** OX
HMIS	**Health** 3	**Flammability** 1	**Instability** 1	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak.
Environmental Precautions	Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment	Flush into sewer with plenty of water. Pick up and arrange disposal without creating dust. Shovel into a dry metal container.
Methods for Cleaning Up	Wear suitable protective equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. After cleaning, flush away

traces with water.

Neutralizing Agent Neutralize with hydrochloric acid.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

Storage Temperature **Minimum** 35 °F / 2 °C **Maximum** 120 °F / 49 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin Protection Impervious clothing, Impervious gloves, Boots, Chemical resistant apron.

Respiratory Protection Use NIOSH approved respiratory protection.

General Hygiene Considerations Do not get in eyes, on skin, or on clothing. Wear suitable gloves and eye/face protection. When using, do not eat, drink, or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Pale Yellow	**Odor**	Ammoniacal
Appearance	Transparent	**pH**	13.2
Specific Gravity	1.06	**Evaporation Rate**	0.55 (Butyl acetate=1)
Percent Volatile (Volume)	No information available	**VOC Content (%)**	No information available
Vapor Pressure	16.07 mmHg @ 70°F	**Vapor Density**	0.6
Solubility	Completely soluble	**Boiling Point/Range**	212 °F / 100 °C

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions

Conditions to Avoid Exposure to air or moisture over prolonged periods

Incompatible Products Incompatible with strong acids and bases, Incompatible with oxidizing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors , Hydrogen.

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

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium nitrite	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium hydroxide	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 nitrite	no data available	LC50 0.092-0.13 mg/L Oncorhynchus mykiss 96 h LC50 0.4-0.6 mg/L Oncorhynchus mykiss 96 h LC50 0.65-1 mg/L Oncorhynchus mykiss 96 h LC50 = 0.19 mg/L Oncorhynchus mykiss 96 h LC50 = 2.3 mg/L Pimephales promelas 96 h LC50 = 20 mg/L Pimephales promelas 96 h	no data available	no data available	-3.7 at 25 °C
Sodium hydroxide	no data available	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	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 Caustic alkali liquids, n.o.s.
Hazard Class 8
UN-No UN1719
Packing Group III
Reportable Quantity (RQ) Sodium nitrite, RQ kg = 672.5946
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

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 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	5-10	1.0 % de minimis concentration

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 nitrite	Not applicable	Not applicable
Sodium hydroxide	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	Dan Hollas
Supercedes Date	05/03/2004
Issuing Date	01/25/2011
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

CHEMSEARCH DIV. OF NCH CORP.

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