Supercedes Date 01/23/2003 **Issuing Date** 09/25/2008

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM AQUA 777 BULK LABEL, CA
Product Code 0182
Recommended Use Water treatment chemical
Chemical Nature Aqueous solution of alkali salts

Information on Manufacturer

CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Emergency Telephone Number

CHEMTREC ® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview
Warning
Severe skin irritation
May cause allergic skin reaction
May cause allergic respiratory reaction
Severe eye irritation
May be harmful if inhaled
Harmful if swallowed

Color dark violet **Physical State** Liquid **Odor** Odorless

Potential Health Effects

Principle Route of Exposure	Skin contact, Eye contact, Inhalation.
Primary Routes of Entry	Inhalation, Ingestion, Skin Absorption.
Acute Effects	
Eyes	Severe eye irritant.
Skin	Severe skin irritant. May cause allergic skin reaction.
Inhalation	Irritating to respiratory system. Methemoglobinemia. Blood disorder may occur after prolonged inhalation. May cause allergic respiratory reaction.
Ingestion	Irritating to mucous membranes. Blood disorder may occur after ingestion. Components of the product create formation of methaemoglobin. May produce an allergic reaction.
Chronic Effects	Methemoglobinemia. May cause sensitization of susceptible persons.
Target Organ Effects	Liver, Kidney, Central Nervous System , spleen, Blood, Heart, Bone Marrow, Respiratory system, Eyes, Skin.
Aggravated Medical Conditions	Skin disorders. Respiratory disorders. Neurological disorders. Blood disorders.
Potential Environmental Effects	See Section 12 for additional Ecological information

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Sodium metaborate tetrahydrate	10555-76-7
Sodium hydroxide	1310-73-2
Sodium nitrite	7632-00-0
Phenolphthalein	77-09-8
Sodium sulfite	7757-83-7

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/Take off 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	Since reversion of methaemoglobin to haemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures. Sensitizer.

5. FIRE-FIGHTING MEASURES

Flash Point Not combustible **Method** Not applicable
Autoignition Temperature No information available
Flammability Limits in Air Hydrogen **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
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**	1	**Instability**	0
HMIS	**Health**	2	**Flammability**	1	**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 labelled containers.

Neutralizing Agent Neutralize with hydrochloric acid

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 container tightly closed in a dry and well-ventilated place. Do not freeze.

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 metaborate tetrahydrate	No data available	no data available	no data available
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
Phenolphthalein	No data available	no data available	no data available
Sodium sulfite	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.

Skin Protection Impervious gloves. Impervious clothing.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective gloves/clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	dark violet	**Odor**	Odorless
Appearance	Opaque	**pH**	12.4
Specific Gravity	1.1	**Bulk Density**	9.2
Evaporation Rate	0.53 (Butyl acetate=1)	**Percent Volatile (Volume)**	94
VOC Content (%)	0	**VOC Content (g/l)**	0
Vapor Pressure	15.4 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. Acids. Alkali metals. Ammonia. Amines.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride gas. Sulfur oxides .

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 metaborate tetrahydrate	2330 mg/kg (Rat)	no data available	no data available	no data available	no data available
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
Phenolphthalein	no data available	no data available	no data available	no data available	no data available
Sodium sulfite	820 mg/kg (Rat)	no data available	22 mg/L (Rat) 1 h 5.5 mg/L (Rat) 4 h	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium metaborate tetrahydrate	no data available	no data available	no data available	no data available	no data available
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
Phenolphthalein	no data available	no data available	no data available	no data available	no data available
Sodium sulfite	no data available	Skin sensitization Respiratory sensitizer	no data available	no data available	Respiratory system, Bone marrow

Carcinogenicity .

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium metaborate tetrahydrate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium hydroxide	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium nitrite	not applicable	not applicable	not applicable	not applicable	not applicable
Phenolphthalein	not applicable	Group 2B	Reasonably Anticipated	X	not applicable
Sodium sulfite	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 metaborate tetrahydrate	no data available	no data available	no data available	no data available	N/A
Sodium hydroxide	no data available	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Sodium nitrite	no data available	LC50= 0.19 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	-3.7
Phenolphthalein	no data available	no data available	no data available	no data available	N/A
Sodium sulfite	no data available	LC50 220 - 460 mg/L Leuciscus idus 96 h	EC50 = 770 mg/L 17 h	LC50 = 330 mg/L 24 h	-4

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

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.
Hazard Class 9
UN-No UN3082
Packing Group III
Reportable Quantity (RQ) 840 lbs
Description Environmentally hazardous substances, liquid, n.o.s.(Sodium nitrite),9,UN3082,PG III; <840# not regulated

TDG

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
UN-No UN3082
Packing Group III
Description ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Sodium nitrite),9,UN3082,PG III; <840# not regulated

ICAO

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.*
Hazard Class 9
Packing Group III
Shipping Description Environmentally hazardous substance, liquid, n.o.s.*(Sodium nitrite),9,UN3082,PG III; <840# not regulated

IATA

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.*
Hazard Class 9
Packing Group III
ERG Code 9L
Shipping Description UN3082,Environmentally hazardous substance, liquid, n.o.s.*(Sodium nitrite),9,PG III; <840# not regulated

IMDG/IMO

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
UN-No UN3082
Packing Group III
EmS No. F-A, S-F
Shipping Description UN3082, Environmentally hazardous substance, liquid, n.o.s.(Sodium nitrite),9,PG III; <840# not regulated

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 and Title 40n of the Code of Federal Regulations, Part 372:

Component	CAS-No	Weight %	SARA 313 - Threshold Values
Sodium nitrite	7632-00-0	3-7	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 metaborate tetrahydrate	Not applicable	Not applicable
Sodium hydroxide	1000 lb	Not applicable
Sodium nitrite	100 lb	Not applicable

Phenolphthalein	Not applicable	Not applicable
Sodium sulfite	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

D2A Very toxic materials .

16. OTHER INFORMATION

Prepared By	Mike McDowell
Supercedes Date	01/23/2003
Issuing Date	09/25/2008
Reason for Revision	No information available
Glossary	No information available
List of References	No information available

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