Safety Data Sheet: CERTIFIED 8000BD

Supercedes Date 11/27/2013 **Issuing Date** 11/04/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CERTIFIED 8000BD
Recommended use Water treatment chemical
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 0788
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Dark blue **Physical State** Liquid **Odor** Mild Sweet

GHS
Classification
Physical Hazards
None
Health Hazard

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A

Other hazards
None

Labeling
Signal Word
WARNING

Hazard Statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P362 - Take off contaminated clothing and wash 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.
P337 + P313 - If eye irritation persists, get medical attention.

1 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
2-Phosphonobutane-1,2,4-tricarboxylic acid	37971-36-1	1-5
Sodium polyacrylate	9003-04-7	1-5
Polymaleic acid	26099-09-2	1-5
Benzotriazole	95-14-7	1-5

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4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing 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 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 Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point > 201 °F / > 94 °C **Method** Seta closed cup
Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4
Suitable Extinguishing Media
Water spray. Carbon dioxide (CO2). 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** 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 labeled containers.
Neutralizing Agent Neutralize with lime milk or soda and flush with plenty of water.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing 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** 40 °F / 4 °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 polyacrylate	3 mg/m^3 PNOS	5 mg/m^3 PNOR	No data available

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.
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. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	Dark blue	**Odor**	Mild Sweet
Odor Threshold	Not applicable	**Appearance**	Opaque
pH	2.5	**Specific Gravity**	1.032
Evaporation Rate	0.56 (Butyl acetate=1)	**Percent Volatile (Volume)**	95.6
VOC Content (%)	0	**VOC Content (g/L)**	0
Vapor Pressure	16.9 mmHg @ 70°F	**Vapor Density**	0.6 (Air = 1.0)
Solubility	Completely soluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available

Boiling Point/Range	> 212 °F / 100 °C	**Flammability (solid, gas)**	No data available
Flash Point	> 201 °F / > 94 °C	**Method**	Seta closed cup
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, Acids, Bases, Metals, Contact with metals liberates hydrogen gas.
Hazardous Decomposition Products Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Hydrogen cyanide (hydrocyanic acid), 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 (Rev. 3, 2009):
Oral LD50 28,272.09
Dermal LD50 56,925.94
Inhalation LC50
- **Gas** No information available
- **Mist** 87.13
- **Vapor** 87.13

Principle Route of Exposure Inhalation, Skin contact, Eye contact.
Primary Routes of Entry Inhalation, Skin Absorption.
Acute Effects
- **Eyes** Severe irritation.
- **Skin** Severe irritation.
- **Inhalation** May be harmful if inhaled.
- **Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity None known.
Target Organ Effects Central nervous system, Respiratory system.
Aggravated Medical Conditions Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
2-Phosphonobutane-1,2,4-tricarboxylic acid	> 4000 mg/kg (Rat)	> 4000 mg/kg (Rat)	> 1979 mg/m^3 (Rat) 4 h	no data available	no data available
Sodium polyacrylate	5000 mg/kg	2000 mg/kg	no data available	no data available	no data available
Benzotriazole	500 - 965 mg/kg (Rat)	no data available	= 1910 mg/m^3 (Rat) 3 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Benzotriazole	no data available	no data available	no data available	no data available	Central nervous system

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
2-Phosphonobutane-1,2,4-tricarboxylic acid	EC50 = 140 mg/L Desmodesmus subspicatus 72 h	LC50 > 500 mg/L Leuciscus idus 48 h	no data available	EC50 265 mg/L Daphnia magna 24 h	N/A
Benzotriazole	EC50 = 15.4 mg/L freshwater algae 96 h	LC50 = 39 mg/L Oncorhynchus mykiss 96 h	no data available	EC50 141.6 mg/L water flea 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 in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

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

SARA 311/312 Hazardous Categorization

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

CERCLA

16. OTHER INFORMATION

Prepared By Adrienne McKee
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

CERTIFIED LABS, DIV. OF NCH CORP.assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.