Safety Data Sheet CBD-92

Supercedes Date Not applicable **Issuing Date** 01/22/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CBD-92
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code 0121
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Light yellow - light pink **Physical state** liquid **Odor** Mild Sweet

GHS
Classification
Physical Hazards

Health Hazard
Serious Eye Damage/Eye Irritation Category 2B

Other hazards
None

Labeling
Signal Word
WARNING

Hazard statements
H320 - Causes eye irritation

Precautionary Statements
P264 - Wash face, hands and any exposed skin thoroughly after handling
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight % *
Water, distilled, conductivity or of similar purity	7732-18-5	86.58979
Polyacrylic Acid	9003-01-4	8.8
Sodium hydroxide	1310-73-2	3.9
Isopropyl alcohol	67-63-0	0.64
Sodium chloride	8028-77-1	0.0702
Nickel	7440-02-0	0
Mercury	7439-97-6	0
Lead	1317-36-8	0
Cobalt	7440-48-4	0
Chromium	7440-47-3	0
Cadmium and compounds (as Cd)	7440-43-9	0
Beryllium	7440-41-7	0
Asbestos	1332-21-4	0
Arsenic	7440-38-2	0
Antimony	7440-36-0	0

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

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
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 if symptoms occur.
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 Does not flash **Method** No data available
Flammability Limits in Air %: No information available. **Upper:** No data available **Lower:** No data available
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
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** 2	**Flammability** 0	**Instability** 0
HMIS	**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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Neutralizing Agent Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Storage Store in original container. Keep container tightly closed in a dry and well-ventilated place. 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** 120 °F / 49 °C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Polyacrylic Acid	1 mg/m^3 TWA (Cu, dust and mist)	No data available	No data available
Sodium hydroxide	Ceiling: 2 mg/m^3	TWA: 2 mg/m^3	10 mg/m^3 Ceiling: 2 mg/m^3
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	2000 ppm STEL 500 ppm STEL 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3
Nickel	TWA: 1.5 mg/m^3	TWA: 1 mg/m^3	10 mg/m^3 TWA: 0.015 mg/m^3
Mercury	TWA: 0.025 mg/m^3 Skin	Ceiling: 0.1 mg/m^3	10 mg/m^3 Ceiling: 0.1 mg/m^3 TWA: 0.05 mg/m^3 vapor
Lead	TWA: 0.05 mg/m^3	TWA: 50 µg/m^3	TWA: 0.050 mg/m^3
Cobalt	TWA: 0.02 mg/m^3	TWA: 0.1 mg/m^3	20 mg/m^3 dust and fume TWA: 0.05 mg/m^3 dust and fume
Chromium	TWA: 0.5 mg/m^3	TWA: 1 mg/m^3	250 mg/m^3 TWA: 0.5 mg/m^3
Cadmium and compounds (as Cd)	TWA: 0.01 mg/m^3 TWA: 0.002 mg/m^3 respirable fraction	TWA: 0.1 mg/m^3 fume TWA: 0.2 mg/m^3 dust TWA: 5 µg/m^3	9 mg/m^3 dust

		Ceiling: 0.3 mg/m^3 Ceiling: 0.6 mg/m^3	
Beryllium	TWA: 0.00005 mg/m^3 inhalable fraction	TWA: 2 µg/m^3 Ceiling: 5 µg/m^3	4 mg/m^3 Ceiling: 0.0005 mg/m^3
Asbestos	TWA: 0.1 fiber/cm3 respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination	TWA: 0.1 fiber/cm3	No data available
Arsenic	: 0.01 mg/m^3 TWA : 0.01 mg/m^3 TWA (as As)	TWA: 10 µg/m^3	5 mg/m^3 Ceiling: 0.002 mg/m^3
Antimony	TWA: 0.5 mg/m^3	TWA: 0.5 mg/m^3	50 mg/m^3 TWA: 0.5 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 Safety glasses with side-shields.

Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

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 state	liquid	**Viscosity**	Non viscous
Color	Light yellow - light pink	**Odor**	Mild Sweet
Odor Threshold	Not applicable	**Appearance**	Transparent
pH	10.7	**Specific Gravity**	1.068
Evaporation Rate	0.56 (Butyl acetate=1)	**Percent Volatile (Volume)**	94
VOC Content (%)	0.6	**VOC Content (g/L)**	6.8
Vapor Pressure	16.4 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	No data available °F / 100 °C	**Flammability (solid, gas)**	No data available
Flash Point	Does not flash	**Method**	No data available
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	No information available	**Upper:** No data available **Lower:** No data available	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known.
Incompatible Products	Strong oxidizing agents.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides.
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 395,027.62

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.

Primary Routes of Entry None known.

Acute Effects:

Eyes Causes eye irritation.

Skin May cause skin irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Water, distilled, conductivity or of similar purity 7732-18-5	> 90 mL/kg (Rat)	no data available	no data available	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
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m^3 (Rat) 4 h	no data available	no data available
Sodium chloride 8028-77-1	= 3 g/kg (Rat)	no data available	> 42 g/m^3 (Rat) 1 h	no data available	no data available
Nickel 7440-02-0	> 9000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Lead 1317-36-8	> 10000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Cobalt 7440-48-4	= 6170 mg/kg (Rat)	no data available	> 10 mg/L (Rat) 1 h	no data available	no data available
Cadmium and compounds (as Cd) 7440-43-9	= 2330 mg/kg (Rat)	no data available	= 25 mg/m^3 (Rat) 30 min	no data available	no data available
Arsenic 7440-38-2	= 763 mg/kg (Rat)	no data available	no data available	no data available	no data available
Antimony 7440-36-0	= 7 g/kg (Rat)	no data available	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium hydroxide 1310-73-2	no data available	no data available	no data available	no data available	Skin Eyes Respiratory system
Isopropyl alcohol 67-63-0	no data available	no data available	no data available	no data available	Skin Eyes Respiratory system
Nickel 7440-02-0	no data available	no data available	no data available	no data available	Lungs Nasal Cavities Skin
Mercury 7439-97-6	no data available	no data available	no data available	no data available	Skin Central nervous system Eyes Respiratory system Kidney
Cobalt 7440-48-4	no data available	no data available	no data available	no data available	Skin Respiratory system
Chromium 7440-47-3	no data available	no data available	no data available	no data available	Skin Eyes Respiratory system
Cadmium and compounds (as Cd) 7440-43-9	no data available	no data available	no data available	no data available	Blood Prostate Respiratory system Kidney
Beryllium 7440-41-7	no data available	no data available	no data available	no data available	Skin Eyes Respiratory system
Asbestos 1332-21-4	no data available	no data available	no data available	no data available	Eyes Respiratory system
Arsenic 7440-38-2	no data available	no data available	no data available	no data available	Lymphatic System Lungs Skin Liver Kidney
Antimony 7440-36-0	no data available	no data available	no data available	no data available	Skin Eyes Respiratory system

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Polyacrylic Acid 9003-01-4	not applicable	Group 3	not applicable	not applicable	not applicable
Nickel 7440-02-0	not applicable	Group 1 Group 2B	Known Reasonably Anticipated	X	not applicable
Mercury 7439-97-6	not applicable	Group 3	not applicable	not applicable	not applicable
Lead 1317-36-8	A3	Group 2A	Reasonably Anticipated	X	not applicable
Cobalt 7440-48-4	A3	Group 2A Group 2B	Reasonably Anticipated	X	not applicable
Chromium 7440-47-3	not applicable	Group 3	not applicable	not applicable	not applicable
Cadmium and compounds (as Cd) 7440-43-9	A2	Group 1	Known	X	not applicable
Beryllium 7440-41-7	A1	Group 1	Known	X	not applicable

Asbestos 1332-21-4	A1	Group 1	Known	X	not applicable
Arsenic 7440-38-2	A1	Group 1	Known	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	log Pow
Polyacrylic Acid	No information available.	LC50 = 580 mg/L Lepomis macrochirus 96 h	No information available	No information available.	N/A
Sodium hydroxide	No information available.	LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h	No information available	No information available.	N/A
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	13299: 48 h Daphnia magna mg/L EC50	0.05
Sodium chloride	No information available.	LC50 5560 - 6080 mg/L Lepomis macrochirus 96 h LC50 = 12946 mg/L Lepomis macrochirus 96 h LC50 6020 - 7070 mg/L Pimephales promelas 96 h LC50 = 7050 mg/L Pimephales promelas 96 h LC50 4747 - 7824 mg/L Oncorhynchus mykiss 96 h LC50 6420 - 6700 mg/L Pimephales promelas 96 h	No information available	1000: 48 h Daphnia magna mg/L EC50 340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static	N/A
Nickel	EC50 = 0.18 mg/L Pseudokirchneriella subcapitata 72 h EC50 0.174 - 0.311 mg/L Pseudokirchneriella subcapitata 96 h	LC50 > 100 mg/L Brachydanio rerio 96 h LC50 = 1.3 mg/L Cyprinus carpio 96 h LC50 = 10.4 mg/L Cyprinus carpio 96 h	No information available	100: 48 h Daphnia magna mg/L EC50 1: 48 h Daphnia magna mg/L EC50 Static	N/A
Mercury	No information available.	LC50 = 0.5 mg/L Cyprinus carpio 96 h LC50 = 0.16 mg/L Cyprinus carpio 96 h LC50 = 0.18 mg/L Cyprinus carpio 96 h LC50 = 0.9 mg/L Oryzias latipes 96 h	No information available	No information available.	N/A
Lead	No information available.	LC50 = 0.298 mg/L Pimephales promelas 96 h	No information available	No information available.	N/A
Cobalt	No information available.	LC50 > 100 mg/L Brachydanio rerio 96 h	No information available	No information available.	N/A
Cadmium and compounds (as Cd)	No information available.	LC50 = 0.003 mg/L Oncorhynchus mykiss 96 h LC50 = 0.006 mg/L Oncorhynchus mykiss 96 h LC50 = 0.002 mg/L Cyprinus carpio 96 h LC50 = 4.26 mg/L Cyprinus carpio 96 h LC50 = 0.24 mg/L Cyprinus carpio 96 h LC50 = 21.1 mg/L Lepomis macrochirus 96 h LC50 = 0.016 mg/L Oryzias latipes 96 h LC50 0.0004 - 0.003 mg/L Pimephales promelas 96 h	No information available	0.0244: 48 h Daphnia magna mg/L EC50 Static	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 Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No.	Weight % *	SARA 313 - Threshold Values
Nickel	7440-02-0	0	0.1
Mercury	7439-97-6	0	1.0
Lead	1317-36-8	0	0.1
Cobalt	7440-48-4	0	0.1
Chromium	7440-47-3	0	1.0
Cadmium and compounds (as Cd)	7440-43-9	0	0.1
Beryllium	7440-41-7	0	0.1
Asbestos	1332-21-4	0	0.1
Arsenic	7440-38-2	0	0.1
Antimony	7440-36-0	0	1.0

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

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	Not applicable
Nickel	100 lb	Not applicable
Mercury	1 lb	Not applicable
Chromium	5000 lb 10 lb	Not applicable
Cadmium and compounds (as Cd)	10 lb	Not applicable
Beryllium	10 lb	Not applicable
Asbestos	1 lb	Not applicable
Arsenic	1 lb	Not applicable
Antimony	5000 lb 10 lb	Not applicable

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supercedes Date Not applicable
Issuing Date 01/22/2016
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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