

EZ COOL PBB

MSDS ID: 11215

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: EZ COOL PBB

Product Descriptor: COOLING WATER TREATMENT

MANUFACTURER: JOHNSON DIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800)851-7145

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
HYDROXY ALKYL DIPHOSPHONATE, TETRASODIUM SALT	3794-83-0	15 - 30%	None established	
SODIUM MOLYBDATE DIHYDRATE	10102-40-6	>30%	(ACGIH) dust: 10	mg/m3
SODIUM TOLYLTRIAZOLE	64665-57-2	1 - 5%	Dust: 10 (ACGIH) and 15 (OSHA)	mg/m3 mg/m3

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING - Contains chemicals that cause irritation to eyes and skin. May be harmful if swallowed. Wear eye protection, clothing and rubber gloves to prevent prolonged skin contact. Wash after handling.

POSSIBLE ROUTES OF ENTRY: Inhalation and ingestion.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: EYES: Irritation with pain, swelling and redness may develop.
SKIN: Causes skin irritation. INGESTION: If swallowed, gastric distress, diarrhea, nausea and vomiting may occur. INHALATION: Dust, spray or mists may cause burns or irritation.

CHRONIC: Same as acute effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis or sensitive skin.

TARGET ORGAN(S) OF CHEMICAL HAZARD(S): Eyes and skin.

IV. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. Get medical attention.
SKIN: Flush skin with plenty of water and wash with mild soap. If irritation develops, get medical attention.
INGESTION: If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. DO NOT induce vomiting. If patient vomits, rerinse mouth. Get immediate medical attention. NOTE: Never give fluids by mouth to an unconscious person.
INHALATION: Remove to fresh air and seek medical attention.

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V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): None FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/E UEL: N/E
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may form during fire.
EXTINGUISHING MEDIA: Water, water spray, CO2, foam or dry powder.
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
Contain spilled solids. Wear protective clothing. Sweep or shovel solids or powder into a non-reactive chemical waste container. Dispose of materials in accordance with local, State and Federal regulations. Flush spill area with water.
This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Store in a cool, dry area, keep away from acids. Keep container closed when not in use. Wear protective gear when handling or using. Do not pressurize container to empty.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses with side shields. Chemical goggles if contact or splash hazard exists.
PROTECTIVE GLOVES: Work gloves recommended.
RESPIRATORY PROTECTION: Not normally required.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Eyewash and safety shower in area if contact or splash hazard exists.
ENGINEERING CONTROLS:
VENTILATION: Good general ventilation should be sufficient to control airborne levels.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: White powder with sweet odor.

BOILING POINT (DEG F): N/A	FREEZING POINT: N/A
SPECIFIC GRAVITY/BULK DENSITY: 0.778	
pH: N/A	pH 1% SOLUTION: 10.36%
VOLATILE BY VOLUME: <5	
SOLUBILITY IN WATER: Soluble	
VAPOR PRESSURE(mmHg): N/A at N/A	VAPOR DENSITY: N/A

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X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of sulfur; oxides of phosphorus; oxides of carbon

HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

TOXICITY TEST DATA:

Sodium Tolyltriazole:

Acute Oral LD50 (rat) - 920 mg/kg (male)

Acute Oral LD50 (rat) - 640 mg/kg (female)

Sodium Molybdate Dihydrate:

Acute Oral LD50 (rat) 4233 mg/kg

Acute Dermal LD50 (rat) >2000 mg/kg

Acute Inhalation LD50 (rat) >1.93 mg/l (4 hr)

XII. ECOLOGICAL INFORMATION

ECOTOXICITY TEST DATA:

Sodium Molybdate Dihydrate:

Acute LC50 (96 hr) (Onchorhynchus mykiss) 7600 mg/l

Acute LC50 (48 hr) (Daphnia magna) 330 mg/l

Sodium tolyltriazole

96 Hr. LC50: Bluegill sunfish - 191.2 mg/L

Rainbow trout - 23.7 mg/L

ENVIRONMENTAL FATE: No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Not Regulated.

Adjust pH of diluted product and discharge to industrial sewer in accordance with discharge permit or local POTW regulations. Use product in container until empty. Triple rinse container with water and add to process. Recycle or dispose of container according to product labeling or Federal, State or local regulations.

XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

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XV. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: None

VOC CONTENT (EPA Method 24A): % VOC: 1.17% Lb/Gal VOC: 0.076

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

NONE

SARA Section 311/312:

ACUTE:YES CHRONIC:NO FIRE:NO REACTIVITY:NO

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINOGEN: None

NTP: No IARC: No OSHA: No

HMIS RATINGS: HEALTH: 2 FIRE: 0 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: B

NFPA RATING: HEALTH: 2 FIRE: 0 REACTIVITY:0 SPECIAL:Alkali

STATE RIGHT-TO-KNOW INFORMATION:

SODIUM MOLYBDATE - CAS #10102-40-6

HYDROXYL ALKYL DIPHOSPHONATE, SODIUM SALT - CAS #3794-83-0

SODIUM PHOSPHENO BUTANE TRICARBOXYLATE - CAS #40372-66-5

SODIUM TOLYTRIAZOLE - CAS #64665-57-2

SODIUM BISULFITE - CAS #7681-38-1

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.