

BioStax 1800

Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Revision: June 1, 2015

Section 1 - Identification

Product Identifier (Trade Name): **BioStax 1800 (Solution A&B)**

Recommended Use: **Water Treatment**

Distributed by: WATERMAZE
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Camas, WA 98607 USA

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Section 2 - Hazards Identification

Classification: This product is not classified as hazardous according to the Globally Harmonized System (GHS)

Label Elements: This product is not classified as hazardous according to OSHA GHS regulations

Hazard Pictograms: Not Regulated

Signal word: Not Regulated

Hazard statements: Not Regulated

Precautionary statements: Not Regulated

Hazard description:

WHMIS-symbols: Not Regulated under WHMIS

NFPA Ratings



Health = 0
Fire = 0
Reactivity = 0

HMIS Ratings

HEALTH	0
FIRE	0
REACTIVITY	0

Section 3 - Composition/Information on Ingredients

Chemical characterization: Mixture

Description: Mixture of the substances listed below with non hazardous additions.

Dangerous components:

Solution A	67-63-0	Propan-2-ol	◊ Flam. Liq. 2, H225	<10%	Solution B	None
			◊ Eye Irrit. 2, H319			

Additional information: For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

Section 4 - First-Aid Measures

General information: No special measures required.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Skin contact: Immediately rinse with water. If skin irritation is experienced, consult a doctor.

Eye contact: Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help.

Information for doctor: Most important symptoms and effects, both acute and delayed: Headache. Slight irritant effect on eyes.

Hazards: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

Section 5 - Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

Additional information: No further relevant information available.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions: Dilute with plenty of water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Handling:

Precautions for safe handling:

Use only in well ventilated areas.

Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility:

Store away from foodstuffs. Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Specific end use(s): No further relevant information available.

Section 8 - Exposure Controls/Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL (USA) Long-term value: 980 mg/m³, 400 ppm

REL (USA) Short-term value: 1225 mg/m³, 500 ppm

Long-term value: 980 mg/m³, 400 ppm

TLV (USA) Short-term value: 984 mg/m³, 400 ppm

Long-term value: 492 mg/m³, 200 ppm

BEI

EL (Canada) Short-term value: 400 ppm

Long-term value: 200 ppm

EV (Canada) Short-term value: 400 ppm

Long-term value: 200 ppm

LMPE (Mexico) Short-term value: 400 ppm

Long-term value: 200 ppm

A4, IBE

Ingredients with biological limit values:

67-63-0 propan-2-ol

BEI (USA) 40 mg/L

Medium: urine

Time: end of shift at end of workweek

Parameter: Acetone (background, nonspecific)

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Engineering controls: No further relevant information available.

Respiratory protection:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

Use suitable respiratory protective device when aerosol or mist is formed.

For large spills, respiratory protection may be advisable.

Protection of hands:



Protective gloves

Wear protective gloves to handle contents of damaged or leaking units.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Safety glasses

Body protection: Not required for normal conditions of use. Protection may be required for spills.

Limitation and supervision of exposure into the environment: No further relevant information available.

Risk management measures: See Section 7 for additional information.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Form: Liquid Color: Tan **Odor:** Alcohol **Odor threshold:** Not Determined **pH-value:** 7 (approximate)

Change in condition

Melting point/Melting range: Undetermined **Boiling point/Boiling range:** Undetermined **Flash point:** Not applicable

Flammability (solid, gaseous): Not applicable **Auto-ignition temperature:** Not determined

Decomposition temperature: Not determined **Auto igniting:** Product is not self-igniting

Danger of explosion: Product does not present an explosion hazard.

Explosion limits: **Lower:** Not determined **Upper:** Not determined

Vapor pressure: Not determined

Density: Not determined **Relative density:** Not determined **Vapour density:** Not determined **Evaporation rate:** Not determined

Solubility in / Miscibility with Water: Fully miscible

Partition coefficient (n-octanol/water): Not determined

Viscosity: **Dynamic:** Not determined **Kinematic:** Not determined

Other information: No further relevant information available.

Section 10 - Stability and Reactivity

Reactivity

Chemical stability: Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions: Reacts with strong oxidizing agents.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: None.

Primary irritant effect: **Skin:** No irritant effect. **Eye:** Slight irritant effect on eyes. **Sensitization:** No sensitizing effects known.

Subacute to chronic toxicity: No further relevant information available.

Additional toxicological information: Irritant

Carcinogenic categories:

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

Probable Routes of Exposure: Inhalation. Eye contact. Skin contact. Ingestion.

Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.

Repeated Dose Toxicity: No further relevant information available.

Section 12 - Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods

Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN-Number	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Not Regulated
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not Regulated
Packing group	
DOT, ADR, IMDG, IATA	Not Regulated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation":	-

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

SARA: Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): 67-63-0 propan-2-ol

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California)

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic categories

EPA (Environmental Protection Agency): None of the ingredients are listed.

IARC (International Agency for Research on Cancer): 67-63-0 propan-2-ol

TLV (Threshold Limit Value established by ACGIH): 67-63-0 propan-2-ol

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients are listed.

State Right to Know Listings: None of the ingredients is listed.

Canadian substance listings:

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%): 67-63-0 propan-2-ol

Other regulations, limitations and prohibitive regulations: This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16 - Other Information

All statements, information, and data provided in this SDS are believed to be accurate and reliable based on current information, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied, on our part, and shall not establish a legally valid contractual relationship. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained herein is intended as permission, inducement or recommendation to violate any laws or to practice any invention covered by existing patents.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3