

SAFETY DATA SHEET EPEC Ejector Pit Enzymatic Cleaner

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: EPEC Product codes(s): Synonym(s): Aqueous enzyme dispersion REACH Registration Number: No data available

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Ejector pit cleaner Uses advised against: No uses advised against

1.3 Details of the supplier and of the safety data sheet

- Manufacturer/ Distributor BBJ Environmental Solutions 9416 East Broadway Ave Tampa, FL 33619 USA +1-813-622-8550; Toll free: +1-800-889-2251
- 1.4 Emergency telephone number: Chemtrec (24 hours) +1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture Product definition: Mixture

Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin Irritant - Category 3 [H316] Eye Irritant - Category 2B [H320]

2.2 Label Elements

Hazard Symbol(s):	None			
Signal Word:	Warning			
U	5			
Hazard Statement(s):	H316 - Causes mild skin irritation			
Precautionary Statements:	H320 - Causes eye irritation			
[Prevention]	P264 - Wash hands or other skin areas contacting this product thoroughly after handling.			
[Response]	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.			
	P332 + P313 - If skin irritation occurs: Get medical attention.			

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Chemical characterization

% by Weight	Ingredient	CAS Number	EC Number	Index Number	GHS Classification
0.5 - 1.0	Carnosol	5957-80-2			
0.5 - 1.0	2-Butoxyethanol	111-76-2	203-905-0	603-014-00-0	H302, H312, H315, H319, H332
0.5 - 1.0	Propylene Glycol	57-55-6	200-338-0		
0.1 - 0.5	Nonylphenol, Ethoxylate	9016-45-9	500-45-9		H302, H315, H319, H411

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product mist cause respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist or if you feel unwell, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting upper and lower lids. Remove contact lenses if present and easy to do, after the first 2 minutes and continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

Skin: Wash affected area with soap and water. Wash contaminated clothing and shoes thoroughly before reuse. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water, if victim is conscious. Remove dentures, if any. Give 1 - 2 cupfuls of water or milk if victim is conscious, alert and able to swallow. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: Cause eye irritation. Symptoms include redness, inflammation, tearing and swelling.

Skin: May cause skin irritation with localized redness, itching and discomfort.

Inhalation: Inhalation of mist or spray may cause irritation of the respiratory tract.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, abdominal cramps and diarrhea.

Chronic: 2-Butoxy ethanol is a known animal carcinogen.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media suitable for surrounding fire. **Unsuitable methods of extinction:** None known

5.2 Special hazards arising from the substance or mixture

Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Not considered to be an explosion hazard.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing designated in Section 8. Ventilate the area.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Cover drains and contain spill. Cover with a large quantity of inert absorbent. Collect product using a shovel or broom and into place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Clean contaminated area with soap and water. Dispose of iwaste in accordance with national and local regulations.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Observe label precautions. Wear all appropriate protective equipment specified in Section 8. Keep containers closed when not in use. Advice on protection against fire and explosion

Not considered to be a fire or explosion hazard

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep container tightly closed. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers of this material may be hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

CAS Number	Ingredient	OSHA PEL - TWA	ACGIH TLV	NIOSH
111-76-2	2-Butoxyethanol	50 ppm; 240 mg/m3	50 ppm TWA; 100 mg/m3 ceiling (aerosol only)	700 ppm
57-55-6	Propylene Glycol	10 mg/m3 (aerosol only); 50 ppm; 155 mg/m3 (aerosol & vapor)		

8.2 Exposure controls

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with unperforated side shields during use. Refer to 29 CFR 1910.133, ANSI Z87.1 or European Standard EN 166.

Hand Protection: Wear rubber gloves or gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls: Do not empty into ditches that lead to open waterways.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, amber colored liquid
Odor	Citrus
Odor Threshold	Not determined
Molecular Weight	Not applicable
Chemical Formula	Not applicable
рН	6.9 - 7.1
Freezing/Melting Point	0°C (32°F), estimated
Initial Boiling Point	100°C (212°F)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Flash Point	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Lower Explosive Limit (LEL)	Not determined
Upper Explosive Limit (UEL)	Not determined
Vapor Pressure	Not determined
Vapor Density	Not determined
Specific Gravity	1.12
Viscosity	Not determined
Solubility in Water	Dispersible
Partition Coefficient: n-octanol/water	Not determined
Volatiles by Volume @ 70º F	>95%

9.2 Other data

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity has been reported.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions Avoid contact with chlorates and nitrates as hazardous reactions may occur.

Hazardous polymerization will not occur.

10.4 Conditions to avoid

Extreme temperatures. Contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents, chlorates, nitrates

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, oxides of nitrogen, chlorine.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

No data available

Acute inhalation toxicity No data available Acute dermal toxicity No data available Skin irritation May cause skin irritation. Eye irritation Causes eye irritation. Sensitization No data available Genotoxicity in vitro No data available Mutagenicity No data available Specific organ toxicity - single exposure No data available Specific organ toxicity - repeated exposure No data available Aspiration hazard No data available

11.2 Further information

Chronic Effects: 2-Butoxyethanol (CAS #111-76-2): IARC, Group 3 carcinogen - Not classifiable as to its carcinogenicity to humans. ACGIH, A3 Carcinogen - Confirmed animal carcinogen with unknown relevance to humans. Not listed as a carcinogen by NTP or OSHA.

This product is not listed as a carcinogen by ACGIH, IARC, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Product contains 2-Butoxyethanol, which is harmful to algae or higher aquatic plants.

12.2 Persistence and degradability

The biodegradability of this product has not been evaluated.

12.3 Bioaccumulation potential

No data available

12.4 Mobility

No data available

12.5 Results of PBT and vPvB assessment

No data available 12.6 Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater, sewers or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of this product may meet the criteria for a hazardous waste.

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Not regulated for transport

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is not classified as hazardous in accordance with OSHA 29 CRF 1910.1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. It is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: None known

SARA 313 Information: None of the chemicals in this product exceed the threshold (de minimis) reporting levels established by Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA. SARA 302/304 Emergency Planning & Notification

No components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain any chemicals that are listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Other U.S. State Inventories

2-Butoxyethanol (CAS #111-76-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: CA, ID, MA, MN, NJ, PA, WA, WI.

Canada

WHMIS Hazard Symbol and Classification: No data available

Canadian National Pollutant Release Inventory (NPRI): 2-Butoxyethanol is listed on the NPRI.

European Economic Community

Labeling (67/548/EEC or 1999/45/EC): None allocated

Safety Phrases: S2 - Keep out of the reach of children.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

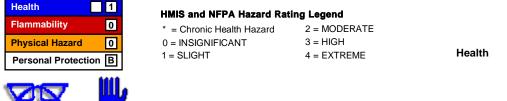
WGK, Germany (Water danger/protection): No data available

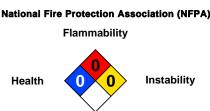
15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)





Special

Full Text of GHS Hazard Phrases Referenced in Section 3.

Gloves

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H315 Causes skin irritation.
- H319 Causes serious eye irritation
- H332 Harmful if inhaled

Safety Glasses

BBJ Environmental Solutions assumes no legal responsibility or liability form the described product's use. All chemicals possess unknown potential hazards. The information herein should be used only to supplement the end user's existing knowledge. Read directions for proper use. This SDS was written for the product as packaged. Cleaning Contractors shall comply with all applicable OSHA regulations.

Preparation Date: 03 August 2015