



# SAFETY DATA SHEET

---

## 1. Identification

**Product identifier:** FBX-VIVID Pretreatment Solution™

**Other means of identification**

**Product No.:** Pretreatment Solution for Light Colored Garments

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Manufacturer/Importer/Supplier/Distributor Information**

**Manufacturer**

**Company Name:** Eastern Tech, LLC

**Address:** 220 Edison Road, Orange, CT 06477

**Telephone:** 203-877-5386

**Emergency telephone number:**

24 Hour Emergency Involving a Spill, Leak, Fire, Exposure or Accident: 908-859-2151

Chemtrec: 800-424-9300

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 4 (Oral) H302

Skin Sens. 1 H317

Eye Irrit. 2 H319

Full text of hazard classes and H-statements: see section 16

### 2.2 Label elements

**Labeling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP):



GHS07

Signal word (CLP): Warning

Hazardous ingredients: Calcium nitrate; Calcium chloride

Hazard statements (CLP):	H302 – Harmful if swallowed
	H317 – May cause an allergic skin reaction
	H319 – Causes serious eye irritation
Precautionary statements (CLP):	P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
	P280 – Wear protective gloves/protective clothing/eye protection/face protection
	P301 + P312 – If Swallowed: Call a Poison Center or doctor/physician if you feel unwell
	P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention
	P337 + P313 – If eye irritation persists: Get medical advice/attention

### 2.3 Other hazards

This mixture does not meet the PBT criteria of REACH, annex XIII

This mixture does not meet the vPvB criteria of REACH, annex XIII

## 3. Composition/Information on Ingredients

<u>Chemical Name(s) or Synonyms</u>	<u>Material CAS Number</u>	<u>Concentration %</u>
Water	7732-18-5	45- 75%
Inorganic Nitrate	***	10- 20%
Trade Secret	***	5- 15%

### Composition Comments:

The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

**General information:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Eye contact may cause eye irritation with discomfort, tearing or blurring of vision. Repeated skin exposure to large quantities may result in absorption of harmful amounts. Wash thoroughly after handling.

### ADDITIONAL HEALTH EFFECTS

Since this mixture has not been tested as a whole to determine the hazards by all routes of exposure, information is provided for each hazardous component of the mixture to meet requirements of OSHA's Hazard Communication Standard (29 CFR 1910.1200). The effects noted occur from exposure to the pure component unless otherwise noted.

### INFORMATION FOR COMPONENTS

#### INORGANIC NITRATE

**Eye Contact** - May cause eye corrosion with corneal or conjunctival ulceration.

**Skin Contact** - May cause skin irritation with discomfort or rash.

**Inhalation** - May cause irritation of the upper respiratory passages with coughing and discomfort.

**Ingestion** - Ingestion may cause methemoglobinemia (reduced oxygen carrying capacity of the blood) with headache, weakness or cyanosis (bluish discoloration of the skin) possibly progressing to dizziness, incoordination, shortness of breath, increased pulse rate and loss of consciousness.

## 5. Fire Fighting Measures

**Flash Point:** >93.3 °C (>200 °F)

**Method:** Closed Cup

Approximate Flammable Limits in Air, % by Volume

**LEL:** Not Available

**UEL:** Not Available

**Autoignition Temperature:** Not Available

**General Fire Hazards:** In case of fire and/or explosion do not breathe fumes.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** None.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. First-aid Measures

**Skin:** Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

**Eyes:** Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air.

**Ingestion:** If swallowed, contact a physician immediately. Induce vomiting after giving two glasses of water. Never give anything by mouth to an unconscious person.

## 7. Handling and Storage

**Precautions for safe handling:** Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well-ventilated place away from incompatible materials. Do not breathe heated vapor or dust. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Keep container tightly closed.

## 8. Exposure Controls/Personal Protection

**Control Parameters**

**Occupational Exposure Limits:** None of the components have assigned exposure limits.

**Appropriate Engineering Controls:** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## Personal Protective Equipment

### Eye/Face Protection

Wear safety glasses. Wear overall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of the material.

### Respirators

Respirators are not needed with proper ventilation. Wear an approved respirator (e.g., an organic vapor respirator or a self-breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit(s) of any chemical substance listed in this SDS.

### Protective Gear

If there is potential for significant dermal contact wear appropriate impervious clothing and gloves.

## Applicable Exposure Limits and Exposure Data

### INORGANIC NITRATE

PEL (OSHA): None Established

TLV (ACGIH): None Established

AEL \* (Internal): 5 mg/m<sup>3</sup>, 8 Hr. TWA, total dust

LD50 (rat, oral): 3,900 mg/kg (supplier)

LC50 (rat, inhalation/4 hr.): No data available

## 9. Physical and Chemical Properties

### Appearance

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Milky White

<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	Not applicable.
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.

### Upper/lower limit on flammability or explosive limits

<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.

<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and Reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Contact with incompatible materials.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Nitrogen Oxides Oxides of Carbon.

## 11. Toxicological Information

### Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: May cause irritation.

Eye contact: May irritate eyes.

### Information on toxicological effects

Acute toxicity (list all possible routes of exposure).

Oral Product: No data available.

Dermal Product: No data available.

Inhalation Product: No data available.

Repeated Dose Toxicity Product: No data available.

**Skin Corrosion/Irritation Product:** May cause skin irritation.

**Serious Eye Damage/Eye Irritation Product:** May irritate eyes.

**Respiratory or Skin Sensitization Product:** Not a skin sensitizer.

### Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:** No carcinogenic components identified.

**US. National Toxicology Program (NTP) Report on Carcinogens:** No carcinogenic components identified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** No carcinogenic components identified.

### Germ Cell Mutagenicity

**In vitro Product:** No mutagenic components identified

<b>In vivo Product:</b>	No mutagenic components identified.
<b>Reproductive Toxicity Product:</b>	No components toxic to reproduction.
<b>Specific Target Organ Toxicity - Single Exposure Product:</b>	No data available.
<b>Specific Target Organ Toxicity - Repeated Exposure Product:</b>	No data available.
<b>Aspiration Hazard Product:</b>	Not classified.
<b>Other Effects:</b>	None known.

## 12. Ecological Information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

<b>Fish Product:</b>	No data available.
<b>Aquatic Invertebrates Product:</b>	No data available.

#### Chronic hazards to the aquatic environment:

<b>Fish Product:</b>	No data available.
<b>Aquatic Invertebrates Product:</b>	No data available.
<b>Toxicity to Aquatic Plants Product:</b>	No data available.

### Persistence and Degradability

<b>Biodegradation Product:</b>	There are no data on the degradability of this product.
<b>BOD/COD Ratio Product:</b>	No data available.
<b>Bioaccumulative Potential</b>	
<b>Bioconcentration Factor (BCF)Product:</b>	No data available on bioaccumulation.
<b>Partition Coefficient n-octanol / water (log Kow) Product:</b>	No data available.
<b>Mobility in Soil:</b>	The product is water soluble and may spread in water systems.
<b>Other Adverse Effects:</b>	Toxic to aquatic life with long lasting effects.

## 13. Disposal Considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport Information

### DOT

Not regulated.

### IMDG

Not regulated.

### IATA

Not regulated.

## 15. Regulatory Information

### US Federal Regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):** None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Acute (Immediate)     Chronic (Delayed)     Fire     Reactive     Pressure Generating

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

None present or none present in regulated quantities.

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

**Australia AICS:** On or in compliance with the inventory.

**Canada DSL Inventory List:** On or in compliance with the inventory.

<b>EINECS, ELINCS or NLP:</b>	On or in compliance with the inventory.
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory.
<b>China Inv. Existing Chemical Substances:</b>	On or in compliance with the inventory.
<b>Korea Existing Chemicals Inv. (KECI):</b>	On or in compliance with the inventory.
<b>Canada NDSL Inventory:</b>	Not in compliance with the inventory.
<b>Philippines PICCS:</b>	On or in compliance with the inventory.
<b>US TSCA Inventory:</b>	On or in compliance with the inventory.
<b>New Zealand Inventory of Chemicals:</b>	Not in compliance with the inventory.
<b>Japan ISHL Listing:</b>	Not in compliance with the inventory.
<b>Japan Pharmacopoeia Listing:</b>	Not in compliance with the inventory.

## 16. Other Information, Including Date of Preparation or Last Revision

### NFPA Hazard ID

<b>0</b>	<b>Flammability</b>
<b>1</b>	<b>Health</b>
<b>1</b>	<b>Reactivity</b>
<b>0</b>	<b>Special hazard</b>

**Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe**

<b>Issue Date:</b>	12/15/17
<b>Revision Date:</b>	No data available.
<b>Version #:</b>	1.1
<b>Further Information:</b>	No data available.

### Disclaimer:

THE INFORMATION PRESENTED IN THIS SAFETY DATA SHEET (SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND EASTERN TECH COMPANY MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, EASTERN TECH COMPANY ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. EASTERN TECH COMPANY REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS SDS AVAILABLE TO YOUR EMPLOYEES.