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

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

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 coverall 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/m3, 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

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Milky White</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Melting point/freezing point:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data available.</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Upper/lower limit on flammability or explosive limits

| Flammability limit - upper (%): | No data available. |
| Flammability limit - lower (%): | No data available. |
| Explosive limit - upper (%): | No data available. |
| Explosive limit - lower (%): | No data available. |
| Vapor pressure: | No data available. |
| Vapor density: | No data available. |
| Relative density: | No data available. |

Solubility(ies)

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

10. Stability and Reactivity
Reactivity: No dangerous reaction known under conditions of normal use.
Chemical Stability: Material is stable under normal conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.
Conditions to Avoid: Contact with incompatible materials.
Incompatible Materials: Strong oxidizing agents.

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

Germ Cell Mutagenicity
- In vitro Product: No mutagenic components identified
In vivo Product: No mutagenic components identified.

Reproductive Toxicity Product: No components toxic to reproduction.

Specific Target Organ Toxicity - Single Exposure Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Aspiration Hazard Product: Not classified.

Other Effects: None known.

12. Ecological Information

Ecotoxicity:

Acute hazards to the aquatic environment:

   Fish Product: No data available.
   Aquatic Invertebrates Product: No data available.

Chronic hazards to the aquatic environment:

   Fish Product: No data available.
   Aquatic Invertebrates Product: No data available.
   Toxicty to Aquatic Plants Product: No data available.

Persistence and Degradability

Biodegradation Product: There are no data on the degradability of this product.

BOD/COD Ratio Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow) Product: No data available.

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: 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
15. Regulatory Information

US Federal Regulations

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


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

- [X] Acute (Immediate)
- [X] Chronic (Delayed)
- [X] Fire
- [X] Reactive
- [X] 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.
EINECS, ELINCS or NLP: On or in compliance with the inventory.
Japan (ENCS) List: On or in compliance with the inventory.
China Inv. Existing Chemical Substances: On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.
Canada NDSL Inventory: Not in compliance with the inventory.
Philippines PICCS: On or in compliance with the inventory.
US TSCA Inventory: On or in compliance with the inventory.
New Zealand Inventory of Chemicals: Not in compliance with the inventory.
Japan ISHL Listing: Not in compliance with the inventory.
Japan Pharmacopoeia Listing: Not in compliance with the inventory.

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

NFPA Hazard ID

<table>
<thead>
<tr>
<th></th>
<th>Flammability</th>
<th>Health</th>
<th>Reactivity</th>
<th>Special hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

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

Disclaimer:

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