### INCIDENT DESCRIPTION:

Foam from Hutchinson well overflowed into secondary containment  
**Hazard:** Surfactant-ProSTREAM FO 2150 (SDS attached)  
**Date-Time first notified:** 1/8/2020 1645  
**Quantity:** Unknown-5 ft. x 8 ft x ~6 inches. deep area of foam in secondary containment

### Location

**GPS:** 40.489627 -79.578979

**Location description and proximity to intake.**

**County:** Westmoreland  
**Municipality:** Washington  
Secondary containment on well pad site

**Source Water Protection Area and nearest PWSID**

Beaver Run  5650032-Beaver Run;

### Map:

![Map Image]

### Sample Information:

**If no samples taken, Reason:**

Surfactant cleaned up and not near a tributary
**TIMELINE AND INVESTIGATION DESCRIPTION:**

1/7/2020  Surfactant used at the Hutchison well to increase gas recovery flowed from a separator to a 400-barrel production/brine fluid tank. Pressure in separator did not get low enough for low pressure alarm to go off. A 5 ft. x 8ft. x ~6-inch-deep area of foam within the tank’s secondary containment area was removed with hand tools along with the affected gravel. In addition, a ~4 ft. area of gravel surrounding the secondary containment area had a haze (from the wind blowing the foam). The affected gravel in this 4 ft. area outside the secondary containment area was also removed. CNX staff used a pressure sprayer to hose down the foam on the outside as well as inside the tank. The 20 ft. tall Tank (400 barrel) had ~4ft of production fluid in it.

CNX staff is also assessing pressure alarm set points and monitoring the site for any residual impacts.

1/8/2020  CNX staff left a message with MAWC staff regarding the incident
1645

1/9/2020  MAWC staff returned CNX’s phone call and received the information above.
0800

1/9/2020  MAWC onsite to take photos of the area
1330

**DETERMINATION: To be completed after lab analysis and follow up information received:**

*Spill and affected material removed. No adjacent tributaries. Not expected to impact drinking water. Will continue to monitor site.*
INCIDENT PHOTOS

*Photo 1* - 2020-01-09 Hutchinson production fluid/brine tank well site area

*Photo 2* - 2020-01-09 Hutchinson production/brine fluid tank secondary containment area

*Photo 3* - 2020-01-09 Area outside of Hutchinson production/brine fluid tank
This safety data sheet complies with OSHA Hazardous Communication Standard (29 CFR 1910.1200)

Issue Date 10/05/18.  Revision Date none  Version 1

Product identifier
Product Name ProSTREAM FO 2150

Other means of identification
Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use No information available.
Uses advised against No information available

Details of the supplier of the safety data sheet
Manufacturer Address Chemstream, Inc.
511 Railroad Ave
Homer City PA 15748
(724) 915-8388

Emergency telephone number
Emergency Telephone For Hazardous Materials [or Dangerous Goods] Incident, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 USA and Canada: +1 703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Oral                  | Category 4 |
| Acute toxicity - Dermal               | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists)| Category 4 |
| Skin corrosion/irritation             | Category 2 |
| Serious eye damage/eye irritation      | Category 2 |

Label elements

Emergency Overview

Danger

Hazard statements
Harmful if swallowed
Irritating to Skin
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause cancer

**Appearance** Clear  **Physical state** Liquid  **Odor** Mild

**Precautionary Statements - Prevention**
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention
Specific treatment (see first aid information on this label)
Specific treatment (see first aid information on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor/physician if you feel unwell
Remove/Take off immediately all contaminated clothing
Wash contaminated clothing before reuse
If skin irritation occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

**Precautionary Statements - Storage**
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not applicable

**Other Information**
* Toxic to aquatic life with long lasting effects
Unknown acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Surfactants</td>
<td>Proprietary</td>
<td>20-50</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>10 - 20%</td>
<td>*</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of first aid measures

**Eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**
Wash skin with soap and water.

**Inhalation**
Remove to fresh air.

**Ingestion**
Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
No information available.

**Explosion data**
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

**Protective equipment and precautions for firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**
Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**
See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment**
Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**
Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE
Precautions for safe handling

Advice on safe handling  Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions  Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials  None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines  This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol</td>
<td>TWA: 20 ppm</td>
<td>TWA: 50 ppm</td>
<td>IDLH: 700 ppm</td>
</tr>
<tr>
<td>111-76-2</td>
<td></td>
<td>TWA: 240 mg/m³</td>
<td>TWA: 5 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 25 ppm</td>
<td>TWA: 24 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 120 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) S*</td>
<td></td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>STEL: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>IDLH: 3300 ppm</td>
</tr>
<tr>
<td>64-17-5</td>
<td></td>
<td>TWA: 1900 mg/m³</td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 1000 ppm</td>
<td>TWA: 1900 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls  Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection  No special technical protective measures are necessary.

Skin and body protection  No special technical protective measures are necessary.

Respiratory protection  If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

General Hygiene Considerations  Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Color</td>
<td>light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>pH</td>
<td>5-8</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>212°F</td>
</tr>
<tr>
<td>Flash point</td>
<td>None to boil</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
</tr>
</tbody>
</table>
Upper flammability limit: No information available
Lower flammability limit: No information available
Vapor pressure: No information available
Vapor density: No information available
Specific Gravity: 0.98-1.02
Water solubility: Miscible in water
Solubility in other solvents: No information available
Partition coefficient: No information available
Autoignition temperature: No information available
 Decomposition temperature: No information available
Kinematic viscosity: No information available
Dynamic viscosity: No information available
Explosive properties: No information available
Oxidizing properties: No information available

Other Information
Softening point: No information available
Molecular weight: No information available
VOC Content (%): No information available
Density: No information available
Bulk density: No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
No data available.

Inhalation
No data available.

Eye contact
No data available.

Skin contact
No data available.

Ingestion
No data available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>ACGIH</td>
<td>IARC</td>
<td>NTP</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------</td>
<td>-----------</td>
<td>-----</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>A3</td>
<td>Group 3</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
</tr>
</tbody>
</table>

**Information on toxicological effects**

**Symptoms**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Numerical measures of toxicity** - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 836.70
ATEmix (dermal) 278.60
ATEmix (inhalation-dust/mist) 1.16

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

54.7 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>Desmodesmus subspicatus mg/L EC50 3.59 - 15.6: 96 h</td>
<td>8 - 12:5: 96 h Pimephales promelas mg/L LC50 static 4.3 - 8.5: 96 h Oncorhynchus mykiss mg/L LC50 static 4.06 - 5.75: 96 h Lepomis macrochirus mg/L LC50 static 10.2 - 22.5: 96 h Pimephales promelas mg/L LC50 semi-static 15 - 18.9: 96 h Pimephales promelas mg/L LC50 static 5.8 - 7.5: 96 h Pimephales promelas mg/L LC50 static 13.5 - 18.3: 96 h Poecilia reticulata mg/L LC50 static 7.97: 96 h Brachydanio rerio mg/L LC50 static 8.2 - 11.6: 96 h Pimephales promelas mg/L LC50 static 3.13: 96 h Cyprinus carpio mg/L LC50 semi-static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 static 9.9 - 20.1: 96 h Brachydanio rerio mg/L LC50 semi-static 10.8 - 16.6: 96 h Poecilia reticulata mg/L LC50 static 22.1 - 22.8: 96 h Pimephales promelas mg/L LC50 static 4.2 - 4.8: 96 h Lepomis macrochirus mg/L LC50</td>
<td>1.8: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>
Persistence and degradability
No information available.

Bioaccumulation
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Secret</td>
<td>1.6</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>0.81</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>-0.32</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes**
Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

**Contaminated packaging**
Do not reuse container.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**DOT**
Not regulated.

### 15. REGULATORY INFORMATION

**International Inventories**
**Legend:**
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol - 111-76-2</td>
<td></td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**

<table>
<thead>
<tr>
<th></th>
<th>Acute health hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire hazard</th>
<th>Sudden release of pressure hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol - 64-17-5</td>
<td>Carcinogen Developmental</td>
</tr>
</tbody>
</table>

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butoxyethanol - 111-76-2</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl alcohol - 64-17-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

|                  | Not applicable |

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<table>
<thead>
<tr>
<th></th>
<th>Physical and Chemical Properties - Physical hazards 0 - Personal protection X</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA Health hazards</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS Health hazards</th>
<th>0</th>
</tr>
</thead>
</table>

**Revision Date**
05-Oct-2018

**Revision Note**
No information available

**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet