



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the  
Hazardous Products Regulation (HPR)

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Revision Number 1

## 1. Identification

### Product identifier

Product Name FBN Imazeth

### Other means of identification

Product Code(s) PMRA Reg. No.: 34809

UN/ID no UN1760

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use Use only as directed on product label

### Details of the supplier of the safety data sheet

#### Supplier Address

Farmers Business Network Canada, Inc.  
120D 1st Street SW  
Box 5607  
High River, Alberta T1V 1M7  
1-844-200-FARM (3276)

E-mail regulatory@farmersbusinessnetwork.com

### Emergency telephone number

Emergency telephone For Emergency Medical Assistance (Human or Animal) contact Rocky Mountain Poison Control at 866-767-5040  
For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) contact CHEMTREC at 800-424-9300 (North America) or 703-527-3887 (International)

## 2. Hazard(s) identification

### Classification

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1                |

### Label elements

#### **Danger**

#### **Hazard statements**

Causes severe skin burns and eye damage

**Precautionary Statements - Prevention**

Do not breathe dust, fume, gas, mist, vapors and spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves, protective clothing, eye protection and face protection

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor

**Skin**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]  
 Wash contaminated clothing before reuse

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

**Other information**

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name                    | CAS No.    | Weight-%  | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|----------------------------------|------------|-----------|--|---|
| Imazethapyr                      | 81335-77-5 | 15 - 25   | -  |   |
| Ammonium hydroxide               | 1336-21-6  | 5 - 10    | -  |   |
| Proprietary Surfactant Blend     | -          | 1 - 5     | -  |   |
| Proprietary Blend of Surfactants | -          | 0.5 - < 1 | -  |   |

### 4. First-aid measures

**Description of first aid measures****General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

|   |   |
|---|---|
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.   |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).  |

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

|                            |  |
|----------------------------|--|
| <b>Symptoms</b>            | Burning sensation.                                       |
| <b>Effects of Exposure</b> | See Section 11 for additional Toxicological Information. |

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

|                           |  |
|---------------------------|--|
| <b>Note to physicians</b> | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |
|---------------------------|--|

### **5. Fire-fighting measures**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                                   | Dry chemical, CO2 or water spray.  |
| <b>Unsuitable extinguishing media</b>                                 | None known based on information supplied.  |
| <b>Specific hazards arising from the chemical</b>                     | The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. |
| <b>Hazardous combustion products</b>                                  | Carbon oxides, Nitrogen oxides (NOx).  |
| <b>Explosion data</b>   |  |
| <b>Sensitivity to mechanical impact</b>                               | None.  |
| <b>Sensitivity to static discharge</b>                                | None.  |
| <b>Special protective equipment and precautions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.     |

### **6. Accidental release measures**

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

**Personal precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### **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** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## **7. Handling and storage**

### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

## **8. Exposure controls/personal protection**

### **Control parameters**

#### **Exposure Limits**

### **Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                |                            |
|----------------|----------------------------|
| Appearance     | Green to dark brown liquid |
| Physical state | Liquid                     |
| Color          | Green to dark brown        |
| Odor           | Faint                      |
| Odor threshold | No information available   |

| <u>Property</u>                         | <u>Values</u> | <u>Remarks • Method</u> |
|---|---------------|-------------------------|
| pH                                      | 5.5 - 8.5     |                         |
| Melting point / freezing point          |               | No data available       |
| Initial boiling point and boiling range |               | No data available       |
| Flash point                             |               | No data available       |
| Evaporation rate                        |               | No data available       |
| Flammability                            |               | No data available       |
| Flammability Limit in Air               |               |                         |
| Upper flammability or explosive limits  |               | No data available       |
| Lower flammability or explosive limits  |               | No data available       |
| Vapor pressure                          |               | No data available       |
| Relative vapor density                  |               | No data available       |
| Relative density                        |               | No data available       |
| Water solubility                        |               | No data available       |
| Solubility in other solvents            |               | No data available       |
| Partition coefficient                   |               | No data available       |
| Autoignition temperature                |               | No data available       |
| Decomposition temperature               |               | No data available       |
| Kinematic viscosity                     |               | No data available       |
| Dynamic viscosity                       | 1 - 2 mPa s   |                         |

### Other information

|                      |                           |
|----------------------|---------------------------|
| Explosive properties | No information available. |
| Oxidizing properties | No information available. |
| Softening point      | No information available  |
| Molecular weight     | No information available  |
| VOC content          | No information available  |
| Liquid Density       | 1.10 - 1.14 g/mL          |
| Bulk density         | No information available  |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | None under normal use conditions.   |
| Chemical stability                 | Stable under normal conditions.   |
| Possibility of hazardous reactions | None under normal processing.   |
| Conditions to avoid                | Exposure to air or moisture over prolonged periods. Incompatible materials. |
| Incompatible materials             | Strong oxidizing agents.  |
| Hazardous decomposition products   | None known based on information supplied.                                   |

## 11. Toxicological information

### Information on likely routes of exposure

**Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.                                   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.   |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

**Acute toxicity****Numerical measures of toxicity**

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

|                        |               |
|------------------------|---------------|
| <b>ATEmix (oral)</b>   | > 2,000 mg/kg |
| <b>ATEmix (dermal)</b> | > 5,000 mg/kg |

**Component Information**

| Chemical name                     | Oral LD50           | Dermal LD50             | Inhalation LC50 |
|-----------------------------------|---------------------|-------------------------|-----------------|
| Imazethapyr<br>81335-77-5         | > 5 g/kg ( Rat )    | > 2000 mg/kg ( Rabbit ) | -               |
| Ammonium hydroxide<br>1336-21-6   | = 350 mg/kg ( Rat ) | -                       | -               |
| Proprietary Surfactant Blend<br>- | = 500 mg/kg ( Rat ) | > 5000 mg/kg ( Rat )    | -               |

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

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes severe skin burns and eye damage. |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye damage. Causes burns. |
| <b>Respiratory or skin sensitization</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | No information available.  |
| <b>Carcinogenicity</b>                   | No information available.  |

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Reproductive toxicity</b>    | No information available. |
| <b>STOT - single exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Aspiration hazard</b>        | No information available. |

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Chemical name                   | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea   |
|---------------------------------|----------------------|--|----------------------------|---|
| Ammonium hydroxide<br>1336-21-6 | -                    | LC50: =8.2mg/L (96h,<br>Pimephales promelas) | -                          | EC50: =0.66mg/L (48h,<br>water flea)<br>EC50: =0.66mg/L (48h,<br>Daphnia pulex) |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

## 13. Disposal considerations

### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

### TDG

|                                   |  |
|-----------------------------------|--|
| <b>UN/ID no</b>                   | UN1760   |
| <b>Proper shipping name</b>       | CORROSIVE LIQUID, N.O.S.                                     |
| <b>Transport hazard class(es)</b> | 8  |
| <b>Packing group</b>              | II   |
| <b>Special Provisions</b>         | 16   |
| <b>Description</b>                | UN1760, CORROSIVE LIQUID, N.O.S. (Ammonium hydroxide), 8, II |

### IATA

|                                   |  |
|-----------------------------------|--|
| <b>UN number or ID number</b>     | UN1760   |
| <b>UN proper shipping name</b>    | Corrosive liquid, n.o.s.                                     |
| <b>Transport hazard class(es)</b> | 8  |
| <b>Packing group</b>              | II   |
| <b>IATA Technical Name</b>        | Ammonium hydroxide   |
| <b>Description</b>                | UN1760, Corrosive liquid, n.o.s. (Ammonium hydroxide), 8, II |
| <b>Special Provisions</b>         | A3, A803   |
| <b>ERG Code</b>                   | 8L   |

**IMDG**

|                            |  |
|----------------------------|--|
| UN number or ID number     | UN1760   |
| UN proper shipping name    | CORROSIVE LIQUID, N.O.S.                                     |
| Transport hazard class(es) | 8  |
| Packing group              | II   |
| IMDG Technical Name        | Ammonium hydroxide   |
| Marine pollutant           | NP   |
| Description                | UN1760, CORROSIVE LIQUID, N.O.S. (Ammonium hydroxide), 8, II |
| Special Provisions         | 274  |
| EmS-No.                    | F-A, S-B   |

**15. Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

Contact supplier for inventory compliance status

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 3 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 3 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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Revision Note Initial Release.

**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**