

# 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)

Issuing Date 02-Sep-2022 Revision Date 02-Sep-2022 Revision Number 1

### 1. Identification

**Product identifier** 

Product Name FBN Clethodim 240

Other means of identification

Product Code(s) PMRA Reg. No.: 33646

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 CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

24/7 Health Emergencies: Call 800-858-7378 (National Pesticide Information Center)

## 2. Hazard(s) identification

#### Classification

| Serious eye damage/eye irritation | Category 2A |
|-----------------------------------|-------------|
| Skin sensitization                | Category 1  |
| Aspiration hazard                 | Category 1  |
| Flammable liquids                 | Category 4  |

### Label elements

#### **Danger**

### **Hazard statements**

Combustible liquid
Causes serious eye irritation
May cause an allergic skin reaction
May be fatal if swallowed and enters airways



### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust, fume, gas, mist, vapors and spray Contaminated work clothing must not be allowed out of the workplace Wear protective gloves, protective clothing, eye protection and face protection Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

### **Precautionary Statements - Response**

#### Eyes

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 and attention

#### Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice and attention Take off contaminated clothing and wash it before reuse

### Ingestion

IF SWALLOWED: Immediately call a doctor

Do NOT induce vomiting

#### Fire

In case of fire: Use dry chemical, CO2, water spray or regular foam to extinguish

### **Precautionary Statements - Storage**

Store locked up

Store in well-ventilated place

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

### Other information

May be harmful if swallowed. May be harmful if inhaled. Causes mild skin irritation. Very toxic to aquatic life.

## 3. Composition/information on ingredients

#### Substance

Not applicable.

### <u>Mixture</u>

| Chemical name                       | CAS No     | Weight-% |   | Date HMIRA filed and date exemption granted (if applicable) |
|-------------------------------------|------------|----------|---|---|
| Naphtha (petroleum), heavy aromatic | 64742-94-5 | 60 - 70  | - |   |
| Clethodim                           | 99129-21-2 | 20 - 30  | - |   |
| Calcium dodecylbenzenesulfonate     | 26264-06-2 | 1 - < 3  | - |   |
| Polysorbate 20                      | 9005-64-5  | 1 - 5    | - |   |
| Alcohols, C12-14. ethoxylated       | 68439-50-9 | 1 - < 3  | - |   |

### 4. First-aid measures

#### Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Aspiration into lungs can produce severe lung damage. If breathing has stopped, give

artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed

pulmonary edema may occur.

Eye contact 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 medical attention if irritation develops and persists.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic

reactions see a physician.

Ingestion ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.

Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person.

Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May

cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause

redness and irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically. Because of the

danger of aspiration, emesis or gastric lavage should not be employed unless the risk is

justified by the presence of additional toxic substances.

5. Fire-fighting measures

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None known based on information supplied.

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitizer. May cause sensitization

by skin contact.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Chlorine compounds.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters

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** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Ensure

adequate ventilation. 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 Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

## 7. Handling and storage

### Precautions for safe handling

surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. 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. 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. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out

of the reach of children. Store away from other materials.

### 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls** 

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eve/face protection** Tight sealing safety goggles.

Hand protection Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

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 Do not eat, drink or smoke when using this product. Contaminated work clothing must 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

No data available

No data available

### 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Physical state
Color
Light brown
Odor
Pungent

Odor threshold No information available

Property Values Remarks • Method

pH 4 - 7

Melting point / freezing point No data available

Initial boiling point and boiling range

No data available

**Flash point** 70.2 °C / 158.4 °F

Evaporation rateNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data availableWater solubilityNo data availableSolubility in other solventsNo data availablePartition coefficientNo data availableAutoignition temperatureNo data available

Decomposition temperature
Kinematic viscosity
Dynamic viscosity
4.137 mPa s

Other information

Explosive properties
Oxidizing properties
No information available.
No information available.
No information available.
No information available
No information available
No information available
No information available
VOC content
No information available
O.96 - 0.99 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** Heat, flames and sparks. 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**

**Inhalation** Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be

fatal. May cause irritation of respiratory tract. May be harmful if inhaled.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation. Causes

serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Repeated exposure may cause skin dryness or cracking. May cause irritation. Prolonged contact may cause redness and irritation.

Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. May

cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

**Acute toxicity** 

Numerical measures of toxicity

**Component Information** 

| Chemical name                 | Oral LD50               | Dermal LD50             | Inhalation LC50      |
|-------------------------------|-------------------------|-------------------------|----------------------|
| Naphtha (petroleum), heavy    | > 5000 mg/kg (Rat)      | > 2000 mg/kg (Rabbit)   | > 590 mg/m³(Rat)4 h  |
| aromatic                      |                         |                         |                      |
| 64742-94-5                    |                         |                         |                      |
| Clethodim                     | = 1360 mg/kg (Rat)      | > 5000 mg/kg (Rabbit)   | > 3.25 mg/L (Rat)4 h |
| 99129-21-2                    |                         |                         |                      |
| Calcium                       | 1086 - 1980 mg/kg (Rat) | -                       | -                    |
| dodecylbenzenesulfonate       |                         |                         |                      |
| 26264-06-2                    |                         |                         |                      |
| Polysorbate 20                | = 37000 mg/kg (Rat)     | -                       | > 5.1 mg/L (Rat)4 h  |
| 9005-64-5                     |                         |                         | ·                    |
| Alcohols, C12-14. ethoxylated | > 2000 mg/kg ( Rat )    | > 3000 mg/kg ( Rabbit ) | > 1600 mg/m³(Rat)4 h |
| 68439-50-9                    |                         |                         |                      |

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

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** May be fatal if swallowed and enters airways.

### 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life.

| Chemical name  | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                               |
|--|----------------------|--|----------------------------|---|
| Naphtha (petroleum), heavy<br>aromatic<br>64742-94-5 | -                    | LC50: =19mg/L (96h, Pimephales promelas)<br>LC50: =2.34mg/L (96h, Oncorhynchus mykiss)<br>LC50: =1740mg/L (96h, Lepomis macrochirus)<br>LC50: =45mg/L (96h, Pimephales promelas)<br>LC50: =41mg/L (96h, Pimephales promelas) | -                          | EC50: =0.95mg/L (48h,<br>Daphnia magna) |
| Calcium<br>dodecylbenzenesulfonate<br>26264-06-2     | <u>-</u>             | LC50: =10.8mg/L (96h,<br>Oncorhynchus mykiss)  | _                          | _                                       |

Persistence and degradability No

No information available.

### **Bioaccumulation**

**Component Information** 

| Chemical name                       | Partition coefficient |
|-------------------------------------|-----------------------|
| Naphtha (petroleum), heavy aromatic | 2.8 - 6.5             |
| 64742-94-5                          |                       |

Mobility No information available.

Other adverse effects No information available.

### 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

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

## 14. Transport information

TDG Not Regulated / Non-Hazardous

Shipment by ground via highway or rail is not regulated as a dangerous good as long as the

packaging meets all TDG requirements.

\*No marks, labels, placards or shipping papers apply per TDG 1.45.1, but may be used to

facilitate multi-modal transport involving ICAO (IATA) or IMO

IATA Not regulated in quantities less than 5 liter per individual container. See IATA SP A197

UN number or ID number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III
ERG Code 9L

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Naphtha (petroleum), heavy

aromatic), 9, III

IMDG Not regulated in quantities less than 5 liter per individual container. See IMDG 2.10.2.7

UN number or ID number UN3082

**UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)
Packing group
III
EmS-No
F-A, S-F
Special Provisions
9
III
274, 335, 969

Marine pollutant P

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Naphtha

(petroleum), heavy aromatic), 9, III, Marine pollutant

### 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

NFPA Health hazards 2 Flammability 2 Instability 0 Special hazards - HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection 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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#### **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**