

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Canada Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), as amended

Issuing Date 24-Aug-2022 Revision date 06-Aug-2025 Revision Number 2

### 1. Identification

**Product identifier** 

Product Name FBN Clethodim Adjuvant

Other means of identification

Product Code(s) PMRA Reg. No.: 33357

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Adjuvant

**Restrictions on use**Use only as directed on product label

Details of the supplier of the safety data sheet

**Supplier Address** 

Farmer's Business Network Canada, Inc. PO Box 5607 High River, Alberta Canada 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 of the substance or mixture

Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 1	

#### Label elements



**Danger** 

(M)SDS Number UL-GCS-121

#### **Hazard statements**

Causes skin irritation Causes serious eye damage

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves, protective clothing, eye protection and face protection

### **Precautionary Statements - Response**

#### Eves

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: Wash with plenty of water and soap If skin irritation occurs: Get medical advice and attention Take off contaminated clothing and wash it before reuse

#### Other information

May be harmful if swallowed.

# 3. Composition/information on ingredients

#### Substance

Not applicable.

#### <u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act date exemption granted	
			registry number	(if applicable)
			(HMIRA registry #)	
Phosphate ester surfactant	68130-47-2	30 - 40	-	

### 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.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Burning sensation. May cause redness and tearing of the eyes. May cause blindness.

Erythema (skin redness).

Effects of Exposure None known.

Indication of any immediate medical attention and special treatment needed

# 5. Fire-fighting measures

surrounding environment.

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

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors.

**Explosion data** 

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

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 Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation.

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.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 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. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

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.

Conditions for safe storage, including any incompatibilities

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

of children.

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## 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

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

Hand protection Wear suitable gloves.

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

No data available

No data available

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear liquid
Physical state Liquid
Color Amber
Odor Amine-like

Odor threshold No information available

Property Values Remarks • Method

Melting point / freezing pointNo data availableInitial boiling point and boiling rangeNo data availableFlammabilityNo data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point >= 150 °C

Autoignition temperatureNo data availableDecomposition temperatureNo data availableSADT (°C)No data available

pH > 2.3 - 3

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity

No data available

Partition Coefficient (n-octanol/water)

Solubility(ies)

Vapor pressure No data available

Relative densityNo data availableBulk densityNo data availableLiquid Density0.96 g/mLNo data availableRelative vapor densityNo data availableParticle characteristicsNo information available

Particle Size No data available
Particle Size Distribution No data available

Other information

Molecular weightNo information availableVOC contentNo information availableSoftening pointNo information available

### Information with regard to physical hazard classes

**Explosives** 

Explosive properties No information available. **Oxidizing properties** 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 None known based on information supplied.

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**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage.

May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Symptoms** Burning sensation. May cause blindness. May cause redness and tearing of the eyes.

Erythema (skin redness).

### **Acute toxicity**

#### **Numerical measures of toxicity**

The following ATE values have been calculated for the mixture:

ATEmix (oral) > 2,000 mg/kg

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 skin irritation.

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

damage.

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

No information available.

No information available.

No information available.

No information available.

STOT - single exposure No information available.

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

**Aspiration hazard** No information available.

# 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

**Bioaccumulative potential** 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 Not regulated

IATA Not regulated

**IMDG** Not regulated

# 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

NFPAHealth hazards3Flammability1Instability0Special hazards-HMISHealth hazards3Flammability1Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
A C C III

ACGIH	American Conference of Governmental Industrial Hygienists		
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)		
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)		
AIIC	Australian Inventory of Industrial Chemicals		
ATE	Acute Toxicity Estimate		
ASTM	American Society for the Testing of Materials		
bar	Biological Reference Values for Chemical Compounds in the Work Area		
BAT	Biological tolerance values for occupational exposure		
BEL	Biological exposure limits		
bw	Body weight		
Ceiling	Maximum limit value		
CMR	Carcinogen, Mutagen or Reproductive Toxicant		
DOT	Department of Transportation (United States)		
DSL	Domestic Substances List (Canada)		
EmS	Emergency Schedule		
ENCS	Existing and New Chemical Substances (Japan)		
EPA	U.S. Environmental Protection Agency		
GHS	Globally Harmonized System		
HMIS	Hazardous Materials Identification System		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk		
ICAO	International Civil Aviation Organization		
IECSC	Inventory of Existing Chemical Substances in China		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
ISO	International Organization for Standardization		
KECI	Korean Existing Chemicals Inventory		
LC50	Lethal Concentration to 50% of a test population		
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)		
MARPOL	International Convention for the Prevention of Pollution from Ships		

NFPA	National Fire Protection Association
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption
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### Key literature references and sources for data used to compile the SDS

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

U.S. 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)

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NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set United Nations World Health Organization (WHO)

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Revision Note Updated format. SDS sections updated: 1, 4, 7, 8, 9, 10, 11.

#### **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** 

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