

FBNSM **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	20-Nov-2023	Revision Date 20-Nov-2023	Revision Number 1
1. Identific	cation		
Product ident	tifier		
Product Name	e	FBN MCPA Ester 600 EC	
Other means	of identification		
Product Code	e(s)	PMRA Reg. No.: 34973	
Synonyms		None	
<u>Recommende</u>	ed use of the chemical	and restrictions on use	
Recommende	ed use	Herbicide	
Restrictions of	on use	Use only as directed on product label	
Details of the	supplier of the safety	data sheet	
Supplier Add Farmer's Busin PO Box 5607 High River, Alt Canada T1V 1 1-844-200-FA	ness Network Canada, berta M7	Inc.	
<u>E-mail</u>		regulatory@farmersbusinessnetwork.com	
Emergency te	elephone number		
Emergency te	elephone	CHEMTREC: +1-703-527-3887 (INTERNATIONAL) 1-800-424-9300 (NORTH AMERICA) 24/7 Health Emergencies: Call 800-858-7378 (National Pesticide Info	ormation Center)
2. Hazard	(s) identification		
Classification	<u>1</u>		

Flammable liquids	Category 4
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

Label elements

Danger

Hazard statements Combustible liquid Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes serious eye damage May cause an allergic skin reaction



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves, protective clothing, eye protection and face protection Avoid breathing vapors or mists Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace 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 Immediately call a POISON CENTER or doctor

Skin

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice and attention

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Fire

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

Causes mild skin irritation. Very toxic to aquatic life with long lasting effects.

Unknown acute toxicity

6.539 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 6.539 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

6.539 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate	29450-45-1	90 - 99	-	
Tristyrylphenol ethoxylates	99734-09-5	1 - 5	-	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts	84989-14-0	1 - < 3	-	
Isobutyl alcohol	78-83-1	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	Remove to fresh air. Get medical attention immediately if symptoms occur. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.				
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 immediate medical attention.				
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.				
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get 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 contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.				
Most important symptoms and effe	Most important symptoms and effects, both acute and delayed				
Symptoms	Burning sensation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing. Difficulty in breathing.				
Effects of Exposure	See Section 11 for additional Toxicological Information.				
Indication of any immediate medical attention and special treatment needed					
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.				
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	May emit toxic fumes under fire conditions.		
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	et None. 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 meas	sures		
Personal precautions, protective ed	quipment 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. Avoid breathing vapors or mists.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containm	ent 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.		
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	Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot 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. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse.		
Conditions for safe storage, includ	ing 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. Keep out of the reach of children. Store locked up.		
8. Exposure controls/pers	onal protection		
Control parameters			

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Exposure Limits

	Chemical name	Alberta	British Columbia	Ontario	Quebec
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Isobutyl alcohol 78-83-1	TWA: 50 ppm TWA: 152 mg/m ³	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm TWA: 152 mg/m ³
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Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Isobutyl alcohol	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Isobutyl alcohol	TWA: 50 ppm STEL: 60 ppm	TWA: 50 ppm	TWA: 50 ppm STEL: 60 ppm	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 225 mg/m ³

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

9. Physical and chemical properties

Information on basic physical and o	chemical properties	
Appearance	Transparent liquid	
Physical state	Liquid	
Color	Light brown	
Odor	Ester	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	3.61	solution (1 %)
Melting point / freezing point		No data available
Initial boiling point and boiling rang	e	No data available
Flash point	81 °C / 177.8 °F	
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive		No data available
limits		

Lower flammability or explosive limits		No data available
Vapor pressure Relative vapor density		No data available No data available
Relative density Water solubility	1.06 mg/L	No data available
Solubility in other solvents Partition coefficient		No data available No data available
Autoignition temperature Decomposition temperature		No data available No data available
Kinematic viscosity Dynamic viscosity	27.1 - 27.7 mPas	No data available @ 20 °C
Other information	21.1 21.1 111 0.3	e 20 0
Explosive properties	No information available.	
Oxidizing properties Softening point	No information available. No information available	
Molecular weight VOC content	No information available No information available	
Liquid Density	No information available	
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 acids, Strong bases, 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. Harmful by inhalation. (based on components).
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. May cause sensitization by skin contact. Causes mild skin irritation. Harmful in contact with skin. (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May be absorbed through the skin in harmful amounts.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the phy	sical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. Pr	rolonged contact may
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cause redness and irritation. Coughing and/ or wheezing.

Acute toxicity

Harmful if swallowed. Harmful by skin contact. Harmful by inhalation.

Numerical measures of toxicity

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

ATEmix (oral)	1,395.84 mg/kg
ATEmix (dermal)	1,184.20 mg/kg
ATEmix (inhalation-dust/mist)	1.62 mg/l

Unknown acute toxicity

6.539 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

6.539 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

6.539 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethylhexyl	= 1300 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat)4 h
(4-chloro-2-methylphenoxy)acet			
ate			
29450-45-1			
Isobutyl alcohol	= 2460 mg/kg (Rat)	= 3400 mg/kg (Rabbit)	> 18.18 mg/L (Rat)6 h
78-83-1			

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 burns. Causes serious eye damage.
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	No information available.

12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
2-Ethylhexyl	EC50: =0.46mg/L (72h,	LC50: 3.2 - 4.6mg/L	-	EC50: =0.29mg/L (48h,
(4-chloro-2-methylphenoxy)acet	Pseudokirchneriella	(96h, Lepomis		Daphnia magna)
ate	subcapitata)	macrochirus)		_
29450-45-1	EC50: =0.43mg/L (96h,	LC50: =3.2mg/L (96h,		
	Pseudokirchneriella	Oncorhynchus mykiss)		
	subcapitata)	LC50: >0.55mg/L (96h,		

	Lepomis macrochirus)	
Isobutyl alcohol	- LC50: =375mg/L (96h,	- EC50: =1300mg/L (48h,
78-83-1	Pimephales promelas)	Daphnia magna)
	LC50: 1370 - 1670mg/L	EC50: 1070 - 1933mg/L
	(96h, Pimephales	(48h, Daphnia magna)
	promelas)	
	LC50: 1480 - 1730mg/L	
	(96h, Lepomis	
	macrochirus)	
	LC50: 1120 - 1520mg/L	
	(96h, Oncorhynchus	
	mykiss)	

Persistence and degradability No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate 29450-45-1	4.49
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., calcium salts 84989-14-0	6
Isobutyl alcohol	1
78-83-1	

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 UN number or ID number UN proper shipping name Transport hazard class(es) Packing group IATA Technical Name Description Special Provisions ERG Code	Not regulated in quantities less than 5 liter per individual container. See IATA SP A197 UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III 2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate UN3082, Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate), 9, III A97, A158, A197 9L
<u>IMDG</u> UN number or ID number UN proper shipping name Transport hazard class(es)	Not regulated in quantities less than 5 liter per individual container. See IMDG 2.10.2.7 UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 9

Packing group	
IMDG Technical Name	2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(2-Ethylhexyl (4-chloro-2-methylphenoxy)acetate), 9, III, Marine pollutant
Special Provisions	274, 335, 969
EmS-No.	F-A, S-F

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					
<u>NFPA</u> HMIS	Health hazards 3 Health hazards 3	Flammability 2 Flammability 2	Instability 0 Physical hazards 0	Special hazards - Personal protection X	
Key or legend to abbreviations and acronyms used in the safety data sheet					
Legend SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose					
Legend Section	8: Exposure controls/persona TWA (time-weighted average)	al protection STEL	STEL (Short Term	n Exposure Limit)	
Ceiling	Maximum limit value Hazard Designation	Sk* +	Skin designation Sensitizers		
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) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification 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