

FBN 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	15-Jun-2023	Revision Date	15-Jun-2023	Revision Number 1
1. Identific	cation			
Product iden	tifier			
Product Nam	e	Flame Glyphosate 360		
Other means	of identification			
Product Code	e(s)	PMRA Reg. No.: 33088		
Synonyms		None		
Recommende	ed use of the chemica	I and restrictions on use	-	
Recommende	ed use	Herbicide		
Restrictions	on use	Use only as directed on	product label	
Details of the	supplier of the safet	y data sheet		
120D 1st Stree Box 5607	ness Network Canada, et SW berta T1V 1M7	Inc.		
<u>E-mail</u>		regulatory@farmersbusi	inessnetwork.com	
Emergency to	elephone number			
Emergency to	elephone	1-800-424-9300 (NORT	27-3887 (INTERNATIONAL) H AMERICA) es: Call 800-858-7378 (National Pesticide Info	ormation Center)
2. Hazard	(s) identification			
<u>Classification</u>	<u>1</u>			

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

Label elements

Danger

Hazard statements

Harmful if swallowed Fatal if inhaled Causes serious eye damage May cause cancer



Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves, protective clothing, eye protection and face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Wear respiratory protection Do not breathe vapor or mist

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention 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

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER or doctor Ingestion IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

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

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%		Date HMIRA filed and date exemption granted (if applicable)
Glyphosate isopropylamine salt	38641-94-0	40 - 50	-	
Amines, tallow alkyl, ethoxylated	61791-26-2	10 - 20	-	
Isopropylamine	75-31-0	1 - 5	-	

4. First-aid measures

Description of first aid measures

<u></u>	
General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. 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. 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	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. 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. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. Prolonged contact may cause redness and irritation.
Effects of Exposure	May cause cancer.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Treat symptomatically.
5. Fire-fighting measures	
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	ct None. 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 meas	sures
Porsonal proceptions, protective of	nuinment and emergency procedures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal	I I
r ersonal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes of clothing. Ose personal	

protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe vapor or mist.

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. Do not breathe vapor or mist. 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. Remove contaminated clothing and shoes.

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. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	Alberta	British Columbia	Ontario	Quebec
Isopropylamine 75-31-0	TWA: 5 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 24 mg/m ³	TWA: 5 ppm STEL: 10 ppm Skin	TWA: 5 ppm STEL: 10 ppm	TWA: 5 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 24 mg/m ³

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Isopropylamine	TWA: 2 ppm STEL: 5 ppm Skin	TWA: 5 ppm STEL: 10 ppm	TWA: 2 ppm STEL: 5 ppm Skin	TWA: 2 ppm STEL: 5 ppm Skin

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Isopropylamine	TWA: 5 ppm STEL: 10 ppm	TWA: 2 ppm STEL: 5 ppm	TWA: 5 ppm STEL: 10 ppm	TWA: 5 ppm TWA: 12 mg/m ³ STEL: 10 ppm STEL: 24 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.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Environmental exposure controls	Avoid release to the environment.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. 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	Yellow liquid
Physical state	Liquid
Color	Yellow
Odor	Odorless
Odor threshold	No information available

Property pH	<u>Values</u> 4.4 - 5	Remarks • Method
Melting point / freezing point Initial boiling point and boiling rang Flash point		No data available
Evaporation rate Flammability		No data available 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		No data available
Other information Explosive properties	No information available.	
Oxidizing properties Softening point	No information available. No information available	

Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	1.16 g/cm³ @ 24∘C

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	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. Fatal if inhaled. (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. Causes mild skin irritation.
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 physical, chemical and toxicological characteristics

Symptoms	Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness.
	Prolonged contact may cause redness and irritation.

Acute toxicity

Fatal if inhaled. Harmful if swallowed.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:ATEmix (oral)1,902.80 mg/kgATEmix (dermal)> 5,000 mg/kg

ATEmix (dermal)	> 5,000	mg/kg
ATEmix (inhalation-dust/mist)	0.306 r	ng/l

Component Information

Chemical name	Chemical name Oral LD50		Inhalation LC50
Glyphosate isopropylamine salt 38641-94-0	= 10537 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 1.3 mg/L (Rat)4 h
Amines, tallow alkyl, ethoxylated	= 500 mg/kg (Rat)	-	-

61791-26-2					
Isopropylamine	= 111 mg/kg (Rat)	= 382 mg/kg (Rat)	= 8.7 mg/L (Rat)4 h		
75-31-0					
Delayed and immediate effects	as well as chronic effects fror	n short and long-term exposure	<u>e</u>		
Skin corrosion/irritation	Classification based on da	Classification based on data available for ingredients. Causes mild skin irritation.			
Serious eye damage/eye irritatio	on Classification based on da damage.	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.			
Respiratory or skin sensitizatio	n No information available.	No information available.			
Germ cell mutagenicity	No information available.	No information available.			
Carcinogenicity	•	Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.			

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Glyphosate isopropylamine salt	-	Group 2A	-	Х
38641-94-0				

Legend

IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present				
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

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glyphosate isopropylamine salt 38641-94-0	-	LC50: =2.3mg/L (96h, Pimephales promelas) LC50: =8.3mg/L (96h, Oncorhynchus mykiss) LC50: =5.6mg/L (96h, Lepomis macrochirus)	-	EC50: 2.6 - 3.4mg/L (48h, Daphnia magna)
75-31-0	EC50: =4.13mg/L (72h, Desmodesmus subspicatus) EC50: =1.2mg/L (96h, Desmodesmus subspicatus) EC50: =62.5mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =310mg/L (96h, Pimephales promelas)	-	EC50: =20.8mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulation

Component Information		
Chemical name		Partition coefficient
Isopropylar 75-31-		-0.5
Mobility	No information available.	
Other adverse effects	No information available.	
13. Disposal consideration	ns	
Disposal methods		
Waste from residues/unused products	Dispose of in accordance environmental legislation.	with local regulations. Dispose of waste in accordance with
Contaminated packaging	Do not reuse empty conta	iners.
14. Transport information	l	
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	UN3082 Environmentally hazardou 9 III Glyphosate isopropylamir	s less than 5 liter per individual container. See IATA SP A197 us substance, liquid, n.o.s. ne salt y hazardous substance, liquid, n.o.s. (Glyphosate isopropylamine
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group IMDG Technical Name Marine pollutant Marine pollutant Description Special Provisions EmS-No.	UN3082 ENVIRONMENTALLY HA 9 III Glyphosate isopropylamir P Glyphosate isopropylamir	ne salt ITALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate

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 haza		Flammability Flammability		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Key or legend to abbreviations and	acronyms	used in the safe	ty data sh	eet	
Legend Section 8: Exposure control TWA TWA (time-weighte Ceiling Maximum limit value Key literature references and source U.S. Environmental Protection Agency European Food Safety Authority (EFS) EPA (Environmental Protection Agency Acute Exposure Guideline Level(s) (AE U.S. Environmental Protection Agency U.S. Environmental Protection Agency U.S. Environmental Protection Agency Food Research Journal Hazardous Substance Database International Uniform Chemical Informa Japan GHS Classification Australia National Industrial Chemicals NIOSH (National Institute for Occupati National Library of Medicine's ChemID National Toxicology Program (NTP) New Zealand's Chemical Classificatior Organization for Economic Co-operatio Organization for Economic Co-operatio World Health Organization	ed average) le es for data ChemView A) () EGL(s)) Federal Ins High Produ ation Datab Notification onal Safety Plus (NLM and Inform on and Deve on and Deve	used to compile Database secticide, Fungici action Volume Ch ase (IUCLID) and Assessmen and Health) CIP) ation Database elopment Enviror elopment High Pi	de, and Ro nemicals nt Scheme (CCID) nment, Hea roduction V	Skin designation odenticide Act (NICNAS) Ith, and Safety Publicatio 'olume Chemicals Progra	ons
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Revision Note	Initial Rele	ase.			

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