

20-8-20 Forestier Performa Globalys™

SECTION 1. IDENTIFICATION

Product Identifier	20-8-20 Forestier Performa Globalys™
Other Means of Identification	100-140-013100
Product Family	Performa Globalys
Recommended Use	Water soluble fertilizer for plants.
Restrictions on Use	For professional use.
Manufacturer/Supplier Identifier	Groupe Horticole Ledoux Inc., 785, rue Paul Lussier , Ste-Hélène-de-Bagot, Québec, J0H 1M0, Canada, 888-791-2223, ghl@ghlinc.com
Emergency Phone No.	CANUTEC , 1-613-996-6666, Number to call in case of transport emergency POISON CONTROL CENTRE, 1-800-463-5060

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Oxidizing solid - Category 3; Eye irritation - Category 2A; Reproductive toxicity - Category 1B

Label Elements



Signal Word:

Danger

Hazard Statement(s):

- H272 May intensify fire; oxidizer.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.

Precautionary Statement(s):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep/Store away from clothing//combustible materials.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P370 + P378 In case of fire: Use water spray or fog to extinguish.
- P405 Store locked up.
- P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium nitrate	7757-79-1	44.5	Nitric acide potassium salt	Nitrate of potash
Ammonium nitrate	6484-52-2	36.6	Nitric acide ammonium salt	NA
Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	1.4	Magnesium nitrate	Magnesium dinitrate hexahydrate
Ethylenediamine tetraacetic acid disodium copper salt, dihydrate	14025-15-1	0.33	EDTA copper	EDTA Cu
Boric acid	10043-35-3	0.1	Orthoboric acid	Boracic acid

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Get medical advice or attention if you feel unwell.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. 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 or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

Can irritate the nose and throat. If in eyes: may cause moderate to severe irritation.

Immediate Medical Attention and Special Treatment

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

DO NOT use carbon dioxide, or other agents that smother the flames.

Specific Hazards Arising from the Product

Mild oxidizer. May intensify fire. Closed containers may rupture violently when heated releasing contents.

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Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated, secure and separate from work areas, separate from incompatible materials (see Section 10: Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Boric acid	2 mg/m ³	6 mg/m ³	15 mg/m ³	Not established	Not established	Not established

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. WEEL® = Workplace Environmental Exposure Limit.

Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear grey.
Odour	Odourless
pH	Not available

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Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	400 g/L at 20 °C in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not applicable (kinematic); Not applicable (dynamic)
Other Information	
Physical State	Solid
Molecular Formula	Not applicable
Molecular Weight	Not available
Bulk Density	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use. May cause or intensify fire.

Chemical Stability

Normally stable. Unstable under certain conditions - see Conditions to Avoid.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Heat. Sunlight. Open flames, sparks, static discharge, heat and other ignition sources. Contact with combustible materials. Incompatible materials.

Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid), halogens (e.g. chlorine), oxidizing agents (e.g. peroxides). Organic Materials.

Hazardous Decomposition Products

Corrosive, oxidizing nitrogen oxides; very toxic carbon monoxide, carbon dioxide; corrosive, flammable ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Potassium nitrate	> 527 mg/m ³	> 2000 mg/kg	> 2000 mg/kg
Ammonium nitrate	> 88.8 mg/L (rat) (4-hour exposure)	2217 mg/kg (rat)	> 5000 mg/kg

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Magnesium(II) nitrate (1:2), hexahydrate	Not available	> 2000 mg/kg (rat)	> 5000 mg/kg (rat)
Ethylenediamine tetraacetic acid disodium copper salt, dihydrate	Not available	Not available	Not available
Boric acid	> 2.03 mg/L (rat) (4-hour exposure)	3500-4100 mg/kg (rat)	2000 mg/kg (rabbit)

Skin Corrosion/Irritation

May cause very mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause mild irritation based on information for closely related chemicals.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Nose and throat irritation.

Skin Absorption

Can cause effects as described for inhalation.

Ingestion

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Boric acid	Not Listed	A4	Not Listed	Not Listed

A4 – Not classifiable as a human carcinogen.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

Animal studies show effects on sexual function and/or fertility. Known to cause: reduced male fertility. (Boric acid)

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Avoid to release to the environment. This fertilizer is a plant nutrient. However, large spills may kill vegetation and fish and cause algae blooms if waterways are contaminated.

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Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Potassium nitrate	1378 mg/L (96-hour)	490 mg/L (Daphnia magna (water flea); 48-hour)	Not available	Not available
Magnesium(II) nitrate (1:2), hexahydrate	1378 mg/L	490 mg/L	Not available	> 1700 mg/L
Ethylenediamine tetraacetic acid disodium copper salt, dihydrate	555 mg/L	Not available	109.2 mg/L (Daphnia magna (water flea))	662.6 mg/L
Boric acid	100 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; fresh water)	319.8 mg/L (Daphnia magna (water flea))	Not available	Not available

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1479	Oxidizing solid, n.o.s. (Potassium nitrate, Ammonium nitrate)	5.1	III
US DOT	1479	Oxidizing solid, n.o.s. (Potassium nitrate, Ammonium nitrate)	5.1	III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This section is not required by WHMIS.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL. Except magnesium nitrate.

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CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. (Potassium nitrate). (Ammonium nitrate) Nitrate (ion in solution at pH 6.0 or above).
Ammonia (total) is the sum of ammonia (NH₃ - CAS number 7664-41-7) and ammonium ion (NH₄⁺) in solution

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory. Except magnesium nitrate.

SECTION 16. OTHER INFORMATION

SDS Prepared By Groupe Horticole Ledoux

Phone No. 888-791-2223

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References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). WHMIS-Workplace Hazardous Materials Information System.

Disclaimer This safety data sheet should be used in conjunction with technical sheets and does not replace them. The information given is based on our knowledge of this product, at the same time of publication.

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