

## 20-8-20+ Performa Globalys™

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	20-8-20+ Performa Globalys™
<b>Other Means of Identification</b>	100-140-013200
<b>Product Family</b>	Performa Globalys
<b>Recommended Use</b>	Water soluble fertilizer for plants.
<b>Restrictions on Use</b>	For professional use.
<b>Manufacturer/Supplier Identifier</b>	Groupe Horticole Ledoux Inc., 785, rue Paul Lussier , Ste-Hélène-de-Bagot, Québec, J0H 1M0, Canada, 888-791-2223, ghl@ghlinc.com
<b>Emergency Phone No.</b>	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 and skin 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.

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium nitrate	7757-79-1	44.3	Nitric acide potassium salt	Nitrate of potash
Ammonium nitrate	6484-52-2	36	Nitric acide ammonium satl	NA
Magnesium(II) nitrate (1:2), hexahydrate	13446-18-9	4.2	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: causes 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.

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

## 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 <sup>3</sup>	6 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	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. AIHA® = AIHA® Guideline Foundation. 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 brown.

**Odour** Odourless

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

Page 03 of 07

<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability (solid, gas)</b>	Will not burn.
<b>Upper/Lower Flammability or Explosive Limit</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	440 g/L at 20 °C in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	Not available
<b>Bulk Density</b>	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)
Ammonium nitrate	> 88.8 mg/L (rat) (4-hour exposure)	2217 mg/kg (rat)	> 5000 mg/kg

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

Magnesium(II) nitrate (1:2), hexahydrate	Not available	> 2000 mg/kg (rat)	> 5000 mg/kg (rat)
Boric acid	> 2.03 mg/L (rat) (4-hour exposure)	3500-4100 mg/kg (rat)	2000 mg/kg (rabbit)
Potassium nitrate	> 527 mg/m3	> 2000 mg/kg	> 2000 mg/kg
Ethylenediamine tetraacetic acid disodium copper salt, dihydrate	Not available	Not available	Not available

#### **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**

<b>Chemical Name</b>	<b>IARC</b>	<b>ACGIH®</b>	<b>NTP</b>	<b>OSHA</b>
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

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

and cause algae blooms if waterways are contaminated.

## Ecotoxicity

### Acute Aquatic Toxicity

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

### 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)

Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

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

**CEPA - National Pollutant Release Inventory (NPRI)**

Part 1A. (Potassium nitrate). (Ammonium nitrate)

Nitrate ion in solution at pH 6.0 or higher

Ammonia (total) is the sum of ammonia (NH<sub>3</sub> - CAS number 7664-41-7) and ammonium ion (NH<sub>4</sub><sup>+</sup>) 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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Product Identifier: 20-8-20+ Performa Globalys™ - Ver. 1

Date of Preparation: novembre 11, 2019

Date of Last Revision: novembre 26, 2020

Page 07 of 07