

## 1 Identification

### GHS Product Identifier

**Product name:** Performance™ 2.0

**Product form:** Liquid mixture

### Recommended use of the chemical and restriction on use

Liquid and foliar fertilizer

### Supplier's details

Axter Agrosience Inc.  
895 chemin Benoit  
Québec, Canada  
J3H 0N7

**Contact number:** 450-464-5755

**Opening Hours:** 7AM - 5PM Monday to Friday

**Emergency phone number**

**CANUTEC:** 1-888-226-8832

**Association Canadienne  
des Centres Antipoison :** [www.capcc.ca](http://www.capcc.ca)

## 2 Hazard(s) identification

### Classification of the substance or mixture

**Classification:** GHS-CA

Acute toxicity (oral) Category 4

Skin corrosion / irritation Category 2

Serious eye damage/irritation Category 2

Carcinogenicity Category 1B

### GHS label elements

Danger



Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Refer to manufacturer or supplier for information on recovery or recycling

### Other hazards which do not result in classification

No additional information available

## 3 Composition/information on ingredients

Description	CAS Number	EINECS Number	%	Note
Ammonium Polyphosphate	68333-79-9		27 - 35	Acute tox 4 (oral) / Eye irritation 2B
Phosphoric acid 75%	7664-38-2		5.25 - 11.25	Skin corrosion 1B / Eye damage 1
potassium hydroxide	1310-58-3		7.23 - 14.36	Acute tox 4 (oral) / Eye irritation 1A / Eye damage 1
cobalt(II) sulfate	10124-43-3		0 - 0.015	Mutagene 2 / Carcen 1B / Reproduction 1B

## 4 First-aid measures

### Description of necessary first-aid measures

Not expected to present a significant hazard under anticipated conditions of normal use.

<b>FOLLOWING INHALATION</b>	Move exposed person to fresh air and facilitate breathing and if required facilitate A. R. If you feel unwell, seek medical advice immediately
<b>FOLLOWING SKIN EXPOSURE</b>	Wash skin with plenty of water and soap. Rinse thoroughly. Get medical advice/attention immediately.
<b>FOLLOWING EYE EXPOSURE</b>	Rinse immediately with plenty of water for at least 15 minutes occasionally lifting eyelids. If victim wears contact lenses, try to remove them and continue rinsing. Seek immediate medical attention
<b>FOLLOWING INGESTION</b>	Rinse mouth. Do NOT induce vomiting. Seek immediate medical advice.

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

<b>INHALATION</b>	May cause respiratory tract irritation.
<b>SKIN</b>	Cause skin irritation including redness.
<b>EYES</b>	Cause serious eye irritation.
<b>INGESTION</b>	Harmful if swallowed. Will cause serious health hazard if swallowed.

### Indication of immediate medical attention and special treatment needed, if necessary

**NOTE TO PHYSICIAN:** Treat symptomatically

## 5 Fire-fighting measures

### Suitable extinguishing media

Use extinguishing agent suitable for the type of surrounding fire;  
Foam, chemical powder, CO<sub>2</sub>, water in a spray, sand, water mist

Avoid excessive water to minimize runoff into the environment.  
Prevent and/or control firefighter water from entering the environment.

### Specific hazards arising from the chemical

In case of fire, hazardous decomposition products may be produced such as:  
Sulphur oxides, Ammonia, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

No direct explosion hazard. Prolonged exposure to fire may cause containers to rupture.

### Special protective actions for fire-fighters

- Use water spray or fog to cool exposed containers.
- Do not enter fire area without proper protective equipment, including full face, positive pressure respiratory protection.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### P.P.E.

Do not take any measure or actions that involves a personal risk or if not properly trained  
Evacuate surroundings  
Do not touch or walk in the spilled product  
Try not to inhale any vapor or fog  
Ensure proper ventilation  
Make sure to wear an adequate mask or positive pressure apparatus if ventilation is not adequate  
Wear proper PPE before entering in spill area.

#### Environmental precautions

Make sure not to let any product or contaminated water enter the environment, water ways or sewers  
Advise proper authorities if product has entered the environment.  
Stop leak if without risk by using absorbent material

#### Methods and materials for containment and cleaning up

Remove all containers from spill area  
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.  
Collect all waste in suitable and labelled containers  
Dispose according to local legislation.  
Do not flush into surface water or sewer system.  
Dispose through approved methods

## 7 Handling and storage

### Precautions for safe handling

Wear P.P.E. when conditions increase the risk of exposure  
Do not eat, drink or smoke in areas where this product is used or handled  
People working with this product should wash their hands and face before they eat, drink or smoke  
Avoid all contact with eyes, skin or clothing  
Do not inhale vapors of fog  
Do not enter in an enclosed area unless proper ventilation is in place  
Keep in original sealed container until product is used  
Empty container may contain residues and can represent a danger

## Conditions for safe storage, including any incompatibilities

Keep in original containers until product is used

Store in a well-ventilated place.

Product must be stored in a proper area and maintained at a temperature > 5 °C

Skid must not be stacked more than two high

## 8 Exposure controls/personal protection

### Control parameters

<b>Phosphoric acid (7664-38-2)</b>		
Quebec	VECD (mg / m <sup>3</sup> )	3 mg / m <sup>3</sup>
Quebec	VEMP (mg / m <sup>3</sup> )	1 mg / m <sup>3</sup>
<b>Potassium hydroxyde</b>		
Quebec	OEL Ceiling (mg / m <sup>3</sup> )	2 mg / m <sup>3</sup>
Canada (all other provinces)	OEL Ceiling (mg / m <sup>3</sup> )	2 mg / m <sup>3</sup>

### Appropriate engineering controls

No special ventilation required if product is used properly

Mix and use outside or in well ventilated areas

People that work around or with the product should wear the proper P.P.E.

Eye wash stations or eye wash showers should be available

### Individual protection measures

- **EYE PROTECTION:** Employee should wear splash-proof or dust-resistant safety goggles to prevent eye contact with this substance.
- **EMERGENCY EYE WASH:** Where there is a possibility that eyes may be exposed to this substance; the employer should provide an eye wash fountain within the immediate work area for emergency use.
- **CLOTHING:** Employee should wear appropriate protective clothing and equipment to prevent repeated or prolonged skin contact with this substance.
- **GLOVES:** Employee should wear appropriate protective gloves to prevent contact with this substance.
- **VENTILATION:** Use only outside or in well ventilated areas
- **RESPIRATOR:** No special respiratory protection equipment is recommended under normal conditions of use. If circumstances warrant protection, an approved organic vapour respirator can be worn to reduce exposure to product vapours.

## 9 Physical and chemical properties

### Physical and chemical properties

<b>PHYSICAL STATE</b>	Liquid
<b>APPEARANCE AND ODOR</b>	Clear or lightly tinted with a slight ammonia odor
<b>BOILING POINT</b>	>100 C <sup>0</sup>
<b>FREEZING POINT</b>	<0 C <sup>0</sup>
<b>DENSITY</b>	1.32 kg/L
<b>PH</b>	6.2 - 6.7
<b>FLASH POINT</b>	non flammable
<b>FLAMMABILITY</b>	not flammable
<b>UPPER/LOWER FLAMMABILITY LIMITS</b>	not applicable
<b>VAPOUR DENSITY</b>	no data available
<b>SOLUBILITY IN WATER</b>	Water soluble
<b>PARTITION COEFFICIENT (N-OCTANOL/H<sub>2</sub>O)</b>	not available
<b>AUTO IGNITION TEMPERATURE</b>	no data available
<b>DECOMPOSITION TEMPERATURE</b>	no data available

## 10 Stability and reactivity

### Reactivity

As such, not reactive under normal storage and handling conditions.

### Chemical stability

Stable under normal storage, handling and mixing conditions

### Possibility of hazardous reactions

None known under normal conditions of use

### Conditions to avoid

Protect from freezing

### Incompatible materials

Strong oxydizing agents

### Hazardous decomposition products

No hazardous decomposition products kn

If heated to the point of decomposition - Carbon oxides, Sulphur oxides, Ammonia

## 11 Toxicological information

### Toxicological (health) effects

**Acute toxicity (oral)** Oral - harmful if swallowed

**Acute toxicity (dermal)** Not classified

**Acute toxicity (inhalation)** Not classified

### Information on the likely routes of exposure

Inhalation, Ingestion, Skin and eye contact

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

**Symptoms / effects:** May cause cancer

**Symptoms / effects after inhalation:** May cause irritation of respiratory tract

**Symptoms / effects after skin contact:** May cause skin irritation

**Symptoms / effects eye contact:** May cause serious eye irritation

**Symptoms / effects after ingestion:** May cause serious health problems

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Skin corrosion:** Skin irritation

**Eye irritation:** Serious irritation

**Sensitization:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**STOT - single exposure:** Not classified

**STOT - repeated exposure:** Not classified

### Numerical measures of toxicity (such as acute toxicity estimates)

<b>Ammonium polyphosphate (68333-79-9)</b>	
LD 50 oral rat	> 2000 mg / kg
<b>Potassium hydroxyde (1310-58-3)</b>	
LD 50 oral rat	333 mg / kg

## 12 Ecological information

### Toxicity

<b>Ecology - general:</b>	Not tested for environmental effects
<b>Acute aquatic toxicity:</b>	Not classified
<b>Chronic aquatic toxicity:</b>	Not classified

<b>Ammonium polyphosphate (68333-79-9)</b>	
LC 50 fish 1	> 500 mg / kg (exposure 96 hr - Brachydanio rerio)
LC 50 fish 2	123 mg / kg (exposure 96 hr - Oncorhynchus mykiss)
<b>Potassium hydroxide (1310-43-3)</b>	
Log Pow	0.65
<b>Cobalt sulfate (10124-43-3)</b>	
Er 50 (algae)	>0.4 mg / L

### Persistence and degradability

In agriculture, the use of this mixture in normal conditions is non persistent.

### Bioaccumulative potential

<b>Potassium hydroxide (1310-43-3)</b>	Log Pow	0.65
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### Mobility in soil

No specific data available for this mixture but agronomic knowledge confirms that:  
the nitrogen (expressed as N) component of this mixture can be mobile in the soil;  
the phosphorous (expressed as P<sub>2</sub>O<sub>5</sub>) component of this mixture is not mobile in the soil;  
the potassium (expressed as K<sub>2</sub>O) component of this mixture can be moderately mobile in the soil.

## 13 Disposal considerations

### Disposal methods

The generation of waste should be avoided or minimized wherever possible.  
Triple rinse all containers and dispose in accordance with all regional / provincial / federal regulatory requirements or through the Clean Farms Empty Container Recycling Program

## 14 Transport information

### UN Number

Not regulated

### UN Proper Shipping Name

Not regulated

### Transport hazard class(es)

Not regulated

## 15 Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### **Potassium hydroxide (1310-43-3)**

Listed on the Canadian DSL List

#### **Ammonium polyphosphate (68333-79-9)**

Listed on the Canadian DSL List

## 16 Other information

### Other information

As per Workplace Health & Safety regulations in place, this SDS should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the safe use and handling of this product in the context of the user's operations.

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.