

1 Identification

GHS Product Identifier

Product name: Performance 2.0

Product form: Liquid mixture

Recommended use of the chemical and restriction on use

Recommended use: Liquid and foliar fertilizer

Supplier's details

Axter Agroscience Inc.
865 chemin Benoit
Québec, Canada
J3H 0N7

Contact number: 450-464-5755

Emergency phone number

CANUTEC: 1-888-226-8832

**Association Canadienne
des Centres Antipoison :** 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

FOLLOWING INHALATION	Remove to fresh air. If not breathing, give CPR. If breathing is difficult, provide oxygen as required by a qualified operator. Get medical attention once person can be moved.
FOLLOWING SKIN EXPOSURE	Wash off immediately with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Get medical attention if irritation develops or persists
FOLLOWING EYE EXPOSURE	Rinse immediately with plenty of water using an approved eye wash station. Rinse for at least 15 minutes keeping eye lids open with fingers. Get medical attention once person can be moved.
FOLLOWING INGESTION	Drink one or two glasses of water if conscious. Induce vomiting only if recommended by a physician. Get medical attention.

Most important symptoms/effects, acute and delayed

INHALATION	May cause respiratory tract irritation.
SKIN	Cause skin irritation including redness.
EYES	Cause serious eye irritation.
INGESTION	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, dry chemical, CO2, Water spray, Sand, water fog

Avoid heavy water stream to minimize runoff into 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 (CO2), 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.
Prevent firefighting water from entering the environment.
Do not enter fire area without proper protective equipment, including respiratory protection.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

P.P.E.

All personnel involved in spill cleanup operations to wear appropriate personal protective equipment.
Avoid contact with skin, eyes and clothing.

Emergency Procedures:

Keep unnecessary and untrained people away by establishing a safety perimeter.
If inside, ensure proper ventilation is provided.

Environmental precautions

Do not let product enter the environment.
As quickly as possible, keeping safety in mind, use absorbant material to contain and absorb

Methods and materials for containment and cleaning up

Prevent further leakage.
Use proper equipment and absorbant material to contain and cleanup spilled material.
Place all material and/or absorbant in a thick plastic bag (if appropriate) and then in a sealable recuperation drum.
Make sure to label recuperation drum to ensure future safe handling, storage and disposal.
Clean contaminated surface thoroughly.
Dispose as per appropriate regulations.

Do not flush spilled material into surface water or sanitary sewer system.

7 Handling and storage

Precautions for safe handling

Follow safe handling procedures when handling skids with forklift.
Avoid any spill that may cause contact with skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practices.
Wash hands and other exposed areas before eating, drinking and when leaving work.

Conditions for safe storage, including any incompatibilities

Keep in original containers. Store in a well-ventilated area.
This product must be kept and stored above 0° C (32° F)
Skid must not be stacked more than two high.

8 Exposure controls/personal protection

Control parameters

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

Appropriate engineering controls

No special ventilation is required if product is used properly.
Only use outside or in properly ventilated work areas.

Eye wash fountains or eye wash stations should be available.

Individual protection measures

VENTILATION: Use only outdoor or in properly ventilated areas

RESPIRATOR: If circumstances warrant protection, an approved organic vapour respirator can be worn to reduce exposure to product vapours.

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 any possibility that an employee's 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 impermeable protective gloves to prevent contact with this substance.

9 Physical and chemical properties

Physical and chemical properties

PHYSICAL STATE	Liquid
APPEARANCE AND ODOR	Clear or lightly tinted with a slight ammonia odor
BOILING POINT	>100 C ⁰
FREEZING POINT	<0 C ⁰
DENSITY	1.32 kg/L
PH	6.2 - 6.7
FLASH POINT	non flammable
FLAMMABILITY	not flammable
UPPER/LOWER FLAMMABILITY LIMITS	not applicable
VAPOUR DENSITY	no data available
SOLUBILITY IN WATER	Water soluble
PARTITION COEFFICIENT (N-OCTANOL/H₂O)	not available
AUTO IGNITION TEMPERATURE	no data available
DECOMPOSITION TEMPERATURE	no data available

10 Stability and reactivity

Reactivity

No dangerous reactions known under normal 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 oxidizing agents

Hazardous decomposition products

No hazardous decomposition products known

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

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)

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

12 Ecological information

Toxicity

Ecology - general:	Not tested for environmental effects
Acute aquatic toxicity:	Not classified
Chronic aquatic toxicity:	Not classified

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

Persistence and degradability

No additional information available

Bioaccumulative potential

Potassium hydroxide (1310-43-3)	
Log Pow	0.65

Mobility in soil

Potassium hydroxide (1310-43-3)	
Log Pow	0.65

Other adverse effects

Ozone:	Not classified
---------------	----------------

13 Disposal considerations

Disposal methods

Triple rinse and dispose/recycle empty container in accordance with municipal/state/federal regulations.
Can also dispose of containers 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

Packing group, if applicable

Not applicable

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.

Date of issue:

December 2019