

Simplot 3-18-18 Liquid Fertilizer

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 06/11/2020

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Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : Simplot 3-18-18 Liquid Fertilizer
Product code : M15400
Product group : Trade product

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Simplot Canada (II) Limited
P.O. Box 1180
Portage LaPrairie, MB R1N 319

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Acute toxicity (oral), Category 4 H302 Harmful if swallowed.
Skin corrosion/irritation, Category 1 H314 Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) :

Danger

Hazard statements (GHS CA) :

H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

Precautionary statements (GHS CA) :

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
phosphoric acid	orthophosphoric acid, conc=75%, aqueous solution / phosphoric acid / Phosphoric acid, solution	(CAS-No.) 7664-38-2	24.9	Skin Corr. 1B, H314
potassium hydroxide	hydrate of potash, conc=50%, aqueous solution / hydrate of potassium, conc=50%, aqueous solution / hydroxide of potash, conc=50%, aqueous solution / hydroxide of potassium, conc=50%, aqueous solution / lye (=potassium hydroxide), conc=50%, aqueous solution / potash hydrate, conc=50%, aqueous solution / potash lye, conc=50%, aqueous solution / potash, conc=50%, aqueous solution / potassium hydrate, conc=50%, aqueous solution / potassium hydroxide / Potassium hydroxide solution	(CAS-No.) 1310-58-3	21.4	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318
ammonia, aqueous solutions	alkaline air, 10%<=conc<25%, aqueous solutions / ammonia hydrate, 10%<=conc<25%, aqueous solutions / Ammonia solution / Ammonia solution, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia / ammonia solution, relative density between 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia / ammonia, aqua, 10%<=conc<25%, aqueous solutions / ammonia, caustic, 10%<=conc<25%, aqueous solutions / ammonia, liquor, 10%<=conc<25%, aqueous solutions / ammoniasolution, 10%<=conc<25%, aqueous solutions / ammoniawater, 10%<=conc<25%, aqueous solutions / ammoniawater, stronger, 10%<=conc<25%, aqueous solutions / ammonium hydrate, 10%<=conc<25%, aqueous solutions / aqua ammonium, 10%<=conc<25%, aqueous solutions / household ammonia, 10%<=conc<25%, aqueous solutions / liquor ammonia, 10%<=conc<25%, aqueous solutions / spirit of hartshorn, 10%<=conc<25%, aqueous solutions / volatile alkali, 10%<=conc<25%, aqueous solutions / water of ammonia, 10%<=conc<25%, aqueous solutions	(CAS-No.) 1336-21-6	1	Skin Corr. 1B, H314

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

No additional information available

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phosphoric acid (7664-38-2)		
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH STEL (mg/m ³)	3 mg/m ³
potassium hydroxide (1310-58-3)		
USA - ACGIH	ACGIH Ceiling (mg/m ³)	2 mg/m ³
ammonia, aqueous solutions (1336-21-6)		
USA - ACGIH	ACGIH TWA (ppm)	25 ppm
USA - ACGIH	ACGIH STEL (ppm)	25 ppm

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Clear Solution
Odour	: Nearly odorless Mild ammonia odor
Odour threshold	: No data available
pH	: 7.4 - 7.8
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 94 °C
Flash point	: Non-flammable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: ≈
Relative density	: 1.42
Density	: 11.8 lbs/gal
Solubility	: Complete.
Log Pow	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable. Not established.
Possibility of hazardous reactions	: Not established.
Conditions to avoid	: Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Water-reactive materials. Strong acids. Strong bases.

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Hazardous decomposition products : During high temperature in fire conditions. The product may reach melting point and decompose to release NH₃, SO_x, PO_x, or CN. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ATE CA (oral)	1556.075 mg/kg bodyweight
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phosphoric acid (7664-38-2)

LD50 oral rat	(Rat)
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potassium hydroxide (1310-58-3)

LD50 oral rat	333 mg/kg (Rat)
ATE CA (oral)	333 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 7.4 - 7.8
Serious eye damage/irritation : Causes serious eye damage.
pH: 7.4 - 7.8
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

phosphoric acid (7664-38-2)

LC50 fish 1	138 mg/l (96 h; Pisces; Pure substance)
LC50 fish 2	100 - 1000 mg/l (Pisces; Pure substance)
LC50 other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
LC50 other aquatic organisms 2	100 - 1000 mg/l (Pure substance)
Log Pow	-0.77 (Estimated value)
TLM fish 1	138 ppm (24 h; Gambusia affinis; Pure substance)
Threshold limit other aquatic organisms 1	240 mg/l (96 h; Protozoa; Pure substance)
Threshold limit other aquatic organisms 2	100 - 1000, Pure substance

potassium hydroxide (1310-58-3)

LC50 fish 1	28.6 mg/l (24 h; Pisces; Pure substance)
LC50 fish 2	80 mg/l (96 h; Gambusia affinis; Pure substance)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)

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potassium hydroxide (1310-58-3)	
Threshold limit other aquatic organisms 1	100 - 1000,96 h

ammonia, aqueous solutions (1336-21-6)	
Log Pow	-1.14

12.2. Persistence and degradability

Simplot 3-18-18 Liquid Fertilizer	
Persistence and degradability	Not established.

phosphoric acid (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

potassium hydroxide (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

ammonia, aqueous solutions (1336-21-6)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established.

12.3. Bioaccumulative potential

Simplot 3-18-18 Liquid Fertilizer	
Bioaccumulative potential	Not established.

phosphoric acid (7664-38-2)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Log Pow	-0.77 (Estimated value)

potassium hydroxide (1310-58-3)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

ammonia, aqueous solutions (1336-21-6)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Log Pow	-1.14

12.4. Mobility in soil

phosphoric acid (7664-38-2)	
Log Pow	-0.77 (Estimated value)

ammonia, aqueous solutions (1336-21-6)	
Log Pow	-1.14

12.5. Other adverse effects

Ozone	: Not classified
Other information	: Avoid unintentional release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid unintentional release to the environment.

SECTION 14: Transport information

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14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

potassium hydroxide (1310-58-3)

Listed on the Canadian DSL (Domestic Substances List)

ammonia, aqueous solutions (1336-21-6)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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Not listed on the United States TSCA (Toxic Substances Control Act) inventory

phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

potassium hydroxide (1310-58-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

ammonia, aqueous solutions (1336-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None

Date of issue : 06/11/2020

Revision date : 06/11/2020

Other information : None.

Full text of H-statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.