Based on: GHS (rev 7) (2017).
Hazardous Products Regulations (HPR)
- Canada

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SAFETY DATA SHEET

YaraVita Seniphos

Section 1. Identification

Product identifier	:	YaraVita Seniphos
Product type	:	Liquid
Product code	:	PYPAMM

Uses

Area of application	:	Professional applications
Material uses	:	Fertilizers.

Supplier

Supplier's details	:	Yara Canada Inc.

Address

Street	:	1874 Scarth Street
Number	:	Ste 1800
Postal code	:	S4P 4B3
City	:	Regina
Country	:	Canada
Telephone number	:	+1 306 525 7600
Fax no.	:	+1 306 525 2942
e-mail address of person responsible for this SDS	:	yna-hesq@yara.com
Emergency telephone number (with hours of operation)	:	US: Chemtrec 24-hours Emergency Response: 1-800-424-9300 Canada: 24 Hour Emergency service, CHEMTREC 1-800-424-9300

National advisory body/Poison Center

Name	:	Poisons and Drug Information Service
Telephone number	:	+1 403 944 1414, (800) 332 1414 (Alberta only)

Section 2. Hazards identification

Classification of the substance or mixture.	:	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

Precautionary statements

Prevention :

P280	Wear protective gloves/clothing and eye/face protection.
P260	Do not breathe gas or vapour.

Response :

P390	Absorb spillage to prevent material damage.
P305	IF IN EYES:
P351	Rinse cautiously with water for several minutes.
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P303	IF ON SKIN (or hair):
P361	Take off immediately all contaminated clothing.
P353	Rinse skin with water.

Additional information : None.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
Phosphoric acid, calcium salt (2:1)	calcium bis(dihydrogenorthophosphate) Calcium compounds calcium phosphate, monobasic	>= 15 - < 20	7758-23-8
Phosphoric acid	orthophosphoric acid phosphorus (total)	>= 10 - < 12.5	7664-38-2
Nitric acid, calcium salt (2:1)	Nitric acid, calcium salt (2:1)	>= 7 - < 10	13477-34-4

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately. Chemical burns must be treated promptly by a physician.

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a physician.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain, watering, redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: pain or irritation, blistering may occur

Ingestion : Adverse symptoms may include the following: stomach pains, May cause burns to mouth, throat and stomach.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None identified.

Specific hazards arising from : In a fire or if heated, a pressure increase will occur and the

the chemical		container may burst. Reacts violently with water. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Acidic. In a fire, decomposition may produce toxic gases/fumes.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: nitrogen oxides, phosphorus oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	:	Non-explosive.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated

absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Not for human or animal consumption.

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Spillages should be cleaned up promptly to avoid damage to surrounding materials.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Phosphoric acid	**CA Alberta Provincial (2009-07-01). [Phosphoric acid]** STEL 3 mg/m3 **CA Alberta Provincial (2004-04-30). [Phosphoric acid]** TWA 1 mg/m3 **CA British Columbia Provincial (2004-08-01). [Phosphoric acid]** TWA 1 mg/m3 STEL 3 mg/m3 **CA Ontario Provincial (2015-06-29). [Phosphoric acid]** TWA 1 mg/m3

	STEL 3 mg/m3 **CA Quebec Provincial (2000-01-12). [Phosphoric acid]** TWA 1 mg/m3 STEL 3 mg/m3 **CA Saskatchewan Provincial (2007-08-10). [Phosphoric acid]** TWA 1 mg/m3 STEL 3 mg/m3

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: Tightly-fitting goggles, Europe:, ISO 16321-1,

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.
Recommended
full-face mask
acid gas filter (Type E)

Personal protective equipment (Pictograms) :

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	:	Liquid
Color	:	Yellow.,
Odor	:	Odorless.
pH	:	1.1 [Conc.: 1,000 g/l]
Melting point/freezing point	:	< -15 °C (< 5 °F)
Boiling point or initial boiling point and boiling range	:	> 100 °C (> 212 °F)
Flash point	:	Not applicable.
Flammability	:	Non-flammable.
Lower and upper explosion limit/flammability limit	:	**Lower:** Not applicable. **Upper:** Not applicable.
Vapor pressure	:	< 23 hPa
Relative vapor density	:	< 1 [Air = 1]
Density	:	1.312 g/cm3
Miscibility with water	:	Miscible in water.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not determined.
Decomposition temperature	:	Not applicable.
Viscosity	:	**Dynamic:** < 100 mPa.s **Kinematic:** < 75 mm2/s
Explosive properties	:	Non-explosive.
Oxidizing properties	:	Non-oxidizer. No oxidizing ingredients present.

Particle characteristics

Median particle size	:	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	May be corrosive to metals. Expert judgment
Chemical stability	:	The product is stable.
Possibility of hazardous	:	Under normal conditions of storage and use, hazardous

reactions reactions will not occur.

Conditions to avoid : Avoid contamination by any source including metals, dust and organic materials.

Incompatible materials : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air., Reactive or incompatible with the following materials:, alkalis, combustible materials, reducing materials, metals, organic materials, Acids

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure
Phosphoric acid, calcium salt (2:1)				
	LD50 Oral	Rat	3,986 mg/kg	Not applicable.
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.
Phosphoric acid				
	OECD 423 LD50 Oral	Rat	300 mg/kg	Not applicable.
Nitric acid, calcium salt (2:1)				
	OECD 423 LD50 Oral	Rat	500 mg/kg	Not applicable.
	OECD 402 LD50 Dermal	Rat	2,000 - 5,000 mg/kg	Not applicable.

Conclusion/Summary : Harmful if swallowed.

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure
Phosphoric acid, calcium salt (2:1)				
	OECD 405 Eyes	Rabbit	Severe irritant	
Phosphoric acid				
	Primary dermal irritation index (PDII) Skin	Rabbit	Visible necrosis	1 h
Nitric acid, calcium salt (2:1)				
	OECD 405 Eyes	Rabbit	Corrosive.	72 h

Conclusion/Summary

Skin : Corrosive to the skin.

Eyes : Causes serious eye damage.

Respiratory : May be irritating to the respiratory system.

Sensitization

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Respiratory : No known significant effects or critical hazards.

Mutagenicity

Conclusion/Summary : No known significant effects or critical hazards.

Carcinogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Reproductive toxicity

Product/ingredient name	Method	Species	Result	Exposure
Nitric acid, calcium salt (2:1)				
	OECD 422 Oral	Rat	Fertility effects- Negative Developmental- Negative NOAEL > 1500 mg/kg bw/day	28 days

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, watering, redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: pain or irritation, blistering may occur

Ingestion : Adverse symptoms may include the following: stomach pains, May cause burns to mouth, throat and stomach.

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

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Method	Species	Result	Exposure
Nitric acid, calcium salt (2:1)				
	OECD 407 Sub-acute NOAEL Oral	Rat	> 1,000 mg/kg	28 days

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Effects on or via lactation : No known significant effects or critical hazards.

Other effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain, watering, redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following: pain or irritation, blistering may occur
Ingestion : Adverse symptoms may include the following: stomach pains, May cause burns to mouth, throat and stomach.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Phosphoric acid, calcium salt (2:1)	3986 mg/kg	N/A	N/A	N/A	N/A
Phosphoric acid	500 mg/kg	N/A	N/A	N/A	N/A
Nitric acid, calcium salt (2:1)	500 mg/kg	2500 mg/kg	N/A	N/A	N/A

Other information : No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity

Product/ingredient name	Method	Species	Result	Exposure
Phosphoric acid, calcium salt (2:1)				
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h
Phosphoric acid				
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h
	OECD 201 Acute EC50 Fresh water	Algae	> 100 mg/l	72 h
Nitric acid, calcium salt (2:1)				
	OECD 203 Acute LC50 Fresh water	Fish	346 mg/l	48 h
	Acute EC50 Fresh water	Daphnia	340 mg/l	48 h
	Acute EC50 Salt water	Algae	> 1,048 mg/l	10 d

Conclusion/Summary : No known significant effects or critical hazards.

Persistence and degradability

Conclusion/Summary : No known significant effects or critical hazards.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Nitric acid, calcium salt (2:1)	< 0	Not applicable.	Low

Conclusion/Summary : No known significant effects or critical hazards.

Mobility in soil

Soil/Water partition coefficient : Not available.

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product

Methods of disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container

must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	TDG Classification	IMDG	IATA
UN number	3264	3264	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)
Transport hazard class(es)	8 	8 	8 
Packing group	III	III	III
Environmental hazards	No.	No.	No.

Additional information

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8)

IMDG : **IMDG Code Segregation group** SG1
Emergency schedules (EmS) F-A, S-B

Special precautions for user : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments — **Proper shipping name** : Not applicable.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: ammonia (total); phosphorus (total); nitrate ion;

CEPA Toxic substances : None of the components are listed.

Inventory list

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

United States inventory (TSCA 8b): All components are active or exempted.
EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.
Canada: All components are listed or exempted.
Thailand: All components are listed or exempted.
Viet Nam: All components are listed or exempted.

Section 16. Other information

Key to abbreviations : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
bw = Body weight
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SUSMP - Standard Uniform Schedule of Medicine and Poisons
SGG = Segregation Group
UN = United Nations

Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Expert judgment
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data

Key data sources : EU REACH ECHA/IUCLID5 CSR.
National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.
Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

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|| Indicates information that has changed from previously issued version.

Notice to reader

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