Conforms: GHS (rev 3)(2009)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS)

(29 CFR 1910.1200(g)), revised in 2012.) - United States

Date of issue/ Date of revision : 03/13/2015
Date of previous issue : 04/13/2014

Version : 2.1



SAFETY DATA SHEET

YaraVita Seniphos

Section 1. Identification

Product name : YaraVita Seniphos

Product type : Liquid Product code : PYPAMM

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

Supplier

Supplier's details : Yara North America, Inc.

<u>Address</u>

Street: 100 North Tampa Street, Suite 3200

Postal code : 33602 City : TAMPA Country : United States

 Telephone number
 : +1 813 222 5700

 Fax no.
 : +1 813 875 5735

 e-mail address of person
 : yna-hesq@yara.com

responsible for this SDS

Emergency telephone number : US: Chemtrec 24-hours Emergency Response: 1-800-424-

(with hours of operation) 9

Canada: 24 Hour Emergency Service, (Canutec 613-996-

6666)

National advisory body/Poison Center

Name : The National Poisons Emergency number

Telephone number : 1 800 222 1222

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

<u>Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.</u>

Classification of the : CORROSIVE TO METALS - Category 1

substance or mixture SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Do not breathe gas or vapour. Wear protective gloves/clothing

and eye/face protection.

Response : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. Immediately call a POISON CENTER or

doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

Storage : Keep only in original container.

Hazards not otherwise

classified

None.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product / ingredient name	CAS number	%
Phosphoric acid, calcium salt (2:1)	CAS: 7758-23-8	>=15 - <20
Phosphoric acid	CAS: 7664-38-2	>=10 - <12.5
Nitric acid, calcium salt (2:1)	CAS: 13477-34-4	>=7 - <10

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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 plenty of water for at least 15

minutes, keeping eyelids open. Check for and remove any

contact lenses. Get medical attention immediately.

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

Date of issue : 03/13/2015 Page:2/17

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 adverse health effects

persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eve contact Corrosive to eyes. Causes burns.

Inhalation Vapor is strongly irritating to the eyes and respiratory system.

> Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact Corrosive to the skin. Causes burns.

Toxic if swallowed. May cause burns to mouth, throat and Ingestion

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

redness

blistering may occur

Ingestion May cause burns to mouth, throat and stomach.

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

Treat symptomatically. Contact poison treatment specialist Notes to physician

> 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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 Unsuitable extinguishing

media

Use an extinguishing agent suitable for the surrounding fire.

None identified.

Specific hazards arising from

the chemical

In a fire or if heated, a pressure increase will occur and the container may burst. Reacts violently with water. Attacks many

Date of issue: 03/13/2015 Page:3/17

Hazardous thermal decomposition products

metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Acidic. In a fire, decomposition may produce toxic gases/fumes.

Decomposition products may include the following materials:

nitrogen oxides phosphorus oxides

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.

: Non-flammable.

Remark

Remark

: None.

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.

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 material 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

Date of issue : 03/13/2015 Page:4/17

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

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 corrosive 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	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 1	
	mg/m3	
	OSHA PEL 1989 (1989-03-01) Pollutant concentration that should	
	not be exceeded during working hours and which workers are	
	believed to be exposed during a period of 15 minutes maximum,	
	without experiencing: a) irritation. b) chronic or irreversible tissue	
	damage. c) dependent toxic effects of exposure rate. d) Narcosis of	
	sufficient magnitude to increase susceptibility to accidents. e) The	
	reduction of ability to get to safety by their own means. 3 mg/m3	
	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 1 mg/m3	
	NIOSH REL (1994-06-01) Time Weighted Average (TWA) 1 mg/m3	
	NIOSH REL (1994-06-01) Pollutant concentration that should not be	

Date of issue : 03/13/2015 Page:5/17

exceeded during working hours and which workers are believed to be exposed during a period of 15 minutes maximum, without experiencing: a) irritation. b) chronic or irreversible tissue damage. c) dependent toxic effects of exposure rate. d) Narcosis of sufficient magnitude to increase susceptibility to accidents. e) The reduction of ability to get to safety by their own means. 3 mg/m3 ACGIH TLV (1994-09-01) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 1 mg/m3 ACGIH TLV (1994-09-01) TLV-STEL: Threshold Limit Value - Short Time Exposure Level 3 mg/m3

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.

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

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.
 - > 8 hours (breakthrough time): Protective gloves should be worn under normal conditions of use.

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

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: In case of inadequate ventilation wear respiratory protection. acid gas filter (Type E)

Personal protective equipment : (Pictograms)



Section 9. Physical and chemical properties

Date of issue : 03/13/2015 Page:6/17

Appearance

Liquid Physical state Color Green.

Odor Not determined. **Odor threshold** Not determined.

pН 1.1

Melting/freezing point -15 °C (5.00 °F)

Boiling/condensation point Not determined. **Sublimation temperature** Not determined. Flash point Not determined. **Evaporation rate** Not determined. **Flammability** Non-flammable.

Lower and upper explosive

Lower: Not determined. (flammable) limits **Upper:** Not determined.

Vapor pressure Not determined.

Relative density 1.312

Solubility Not determined. Not determined. Partition coefficient: n-

octanol/water

Auto-ignition temperature Not determined. **Decomposition temperature** Not determined.

Viscosity Dynamic: < 100 mPa.s

Kinematic: Not determined.

Explosive properties None. Oxidizing properties None.

Section 10. Stability and reactivity

Reactivity May be corrosive to metals. Expert judgment

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

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

Date of issue: 03/13/2015 Page:7/17

Information on toxicological effects

Acute toxicity

Product / ingredient name	Result	Species	Dose	Exposure	References
Phosphoric acid	, calcium salt (2:1)			
	LD50 Oral	Rat	3,986 mg/kg	-	NTIS** OTS0571950
	LD50 Dermal	Rabbit	> 2,000 mg/kg	-	NTIS** OTS0571950
Phosphoric acid				•	•
	LD50 Oral	Rat	2,600 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method	-	IUCLID5
Nitric acid, calci	um salt (2:1)				<u>. </u>
	LD50 Oral	Rat	500 mg/kg 423 Acute Oral toxicity - Acute Toxic Class Method	-	IUCLID 5
	LD50 Dermal	Rat	> 2,000 mg/kg OECD 402	-	IUCLID 5

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

Irritation/Corrosion

Product / ingredient name	Result	Species	Score	Exposur e	Observatio n	References
Phosphoric acid, calcium salt (2:1)	Eyes - Severe irritant OECD 405	Rabbit			1	
Nitric acid, calcium salt (2:1)	Eyes - Corrosive. OECD 405	Rabbit	4	72 h	-	IUCLID 5

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 data available for this end-point, hence this classification is

not considered to be applicable.

Respiratory : No data available for this end-point, hence this classification is

not considered to be applicable.

Date of issue : 03/13/2015 Page:8/17

Mutagenicity

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

Carcinogenicity

Classification

Product / ingredient	OSHA	IARC	NTP
name			
Nitric acid, calcium		2A	
salt (2:1)			

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

Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
Phosphoric acid	-	Negative	-	Rat	Oral: > 500 mg/kg bw/day OECD 422	54 days	IUCLID5
Phosphoric acid	Negative	-	Negative	Rat	Oral: > 410 mg/kg bw/day OECD 414	10 days	IUCLID5
Phosphoric acid	Negative	-	Negative	Mouse	Oral: > 370 mg/kg bw/day OECD 414	10 days	IUCLID5
Nitric acid, calcium salt (2:1)	-	Negative	Negative	Rat	Oral: > 1500 mg/kg bw/day OECD 422	28 days	IUCLID 5

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

Teratogenicity

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

Date of issue : 03/13/2015 Page:9/17

No known significant effects or critical hazards.

Information on the likely

routes of exposure

Not available.

Potential acute health effects

Eye contact : Corrosive to eyes. Causes burns.

Inhalation : Vapor is strongly irritating to the eyes and respiratory system.

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Corrosive to the skin. Causes burns.

Ingestion : Toxic 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

redness

blistering may occur

Ingestion : 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	Result	Species	Dose	Exposure	References
Phosphoric acid	NOAEL Oral	Rat	250 mg/kg OECD 422	54days	IUCLID5
Nitric acid, calcium salt (2:1)	NOAEL Oral	Rat	> 1000 mg/kg OECD 407	28days	IUCLID 5

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

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.

Date of issue: 03/13/2015 Page:10/17

Fertility 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

redness

blistering may occur

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

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product / ingredient	Result	Species	Exposure	References
name				
Phosphoric acid				
	Acute EC50 > 100 mg/l Fresh water OECD 202	Aquatic invertebrates Daphnia	48 h	IUCLID5
	Acute EC50 > 100 mg/l Fresh water OECD 201	Aquatic plants - Heterosigma akashiwo	72 h	IUCLID5
Nitric acid, calcium salt (2	:1)			
	Acute LC50 1,378 mg/l Fresh water OECD 203	Fish - Labeo boga	96 h	IUCLID 5
	Acute EC50 490 mg/l Fresh water	Aquatic invertebrates Daphnia	48 h	IUCLID 5
	Acute EC50 > 1,700 mg/l Salt water	Aquatic plants - Heterosigma akashiwo	10 d	IUCLID 5

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

Persistence/degradability

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

	. The fill englished the end of the call that are the			
Product / ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Phosphoric acid, calcium salt (2:	1)			
			Not relevant for inorganic substances.	
Nitric acid, calcium salt (2:1)				
			Not relevant for	

Date of issue : 03/13/2015 Page:11/17

YaraVita Seniphos	

	inorganic
	substances.

Bioaccumulative potential

Product / ingredient	LogPow	BCF	Potential
name			
Nitric acid, calcium salt	< 0	-	low
(2:1)			

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

Mobility in soil

Soil/water partition coefficient (KOC)

: Not available.

Not available.

Mobility
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.

United States - RCRA Acute hazardous waste "P" List:

Not listed

United States - RCRA Toxic hazardous waste "U" List:

Not listed

Section 14. Transport information

Regulation: UN Class		
14.1 UN number	3264	
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (orthophosphoric acid,)	
14.3 Transport hazard class(es)	8	

Date of issue : 03/13/2015 Page:12/17

14.4 Packing group	III
14.5 Environmental hazards	No.
14.6 Additional information Environmental hazards	: No.

Regulation: IMDG			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
	(orthophosphoric acid,)		
14.3 Transport hazard class(es)	8		
14.4 Packing group	III		
14.5 Environmental hazards			
14.6 Additional information			
IMDG Code Segregation	: SG01		
group Emergency schedules (EmS)	: F-A, S-B		

Regulation: IATA			
14.1 UN number	3264		
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.		
	(orthophosphoric acid,)		
14.3 Transport hazard class(es)	8		
14.4 Packing group	III		
14.5 Environmental hazards			
14.6 Additional information			

Regulation: DOT Classification	
14.1 UN number	3264
14.2 UN proper shipping name	()
14.3 Transport hazard class(es)	
	CONTIGENT
14.4 Packing group	
14.5 Environmental hazards	No.

Date of issue : 03/13/2015 Page:13/17

14.6 Additional information

Environmental hazards : No.

Regulation: TDG Class	
14.1 UN number	3264
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. ()
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	No.
14.6 Additional information Environmental hazards	: No.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Not applicable. **IMSBC**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

Section 15. Regulatory information

United States

U.S. Federal regulations

United States - TSCA 12(b) - Chemical export **notification:** None of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(e) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not

listed

United States - TSCA 4(f) - Priority risk review: Not

listed

United States - TSCA 5(a)2 - Final significant new use

rules: Not listed

United States - TSCA 5(a)2 - Proposed significant new

use rules: Not listed

United States - TSCA 5(e) - Substances consent order:

Not listed

United States - TSCA 6 - Final risk management: Not listed

United States - TSCA 6 - Proposed risk management:

Not listed

United States - TSCA 8(a) - Comprehensive

assessment report (CAIR): Not listed

United States - TSCA 8(a) - Chemical risk rules: Not

listed

Date of issue: 03/13/2015 Page:14/17 United States - TSCA 8(a) - Dioxin/Furane precusor:

United States - TSCA 8(a) - Chemical Data Reporting

(CDR): Not determined

United States - TSCA 8(a) - Preliminary assessment

report (PAIR): Not listed

United States - TSCA 8(c) - Significant adverse

reaction (SAR): Not listed

United States - TSCA 8(d) - Health and safety studies:

United States - EPA Clean water act (CWA) section

307 - Priority pollutants: Not listed

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed Phosphoric acid United States - EPA Clean air act (CAA) section 112 -

Accidental release prevention - Flammable

substances: Not listed

United States - EPA Clean air act (CAA) section 112 -Accidental release prevention - Toxic substances:

United States - Department of commerce - Precursor

chemical: Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants

(HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

DEA List I Chemicals

(Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

Not listed

Not listed

Not listed

Not listed

Not listed

SARA 302/304

Not applicable.

SARA 304 RQ Not applicable.

SARA 311/312

Classification Reactive

> Immediate (acute) health hazard Delayed (chronic) health hazard

SARA 313

		Product name	CAS number	Concentration
Form R - Reporting requirements	:	Nitric acid, calcium salt (2:1)	13477-34-4	7 - 10
Supplier notification	:	Nitric acid, calcium salt (2:1)	13477-34-4	7 - 10

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Date of issue: 03/13/2015 Page:15/17

State regulations

Massachusetts: The following components are listed:

Phosphoric acid

New York : The following components are listed:

Phosphoric acid

New Jersey : The following components are listed:

Phosphoric acid

Pennsylvania: The following components are listed:

Phosphoric acid

California Prop. 65

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

International lists

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Canada inventory (DSL and NDSL): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. EC INVENTORY (EINECS/ELINCS): All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	-	2
Flammability		0
Physical hazards		0
	•	

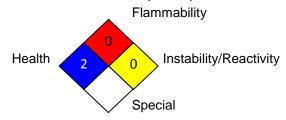
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Chronic toxicity:

- -: No data available.
- *: Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire,

Date of issue : 03/13/2015 Page:16/17

health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations

ADN/ADNR = 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

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution

From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

NOHSC - National Occupational Health and Safety Commission

RID = The Regulations concerning the International Carriage of Dangerous

Goods by Rail

SUSDP - Standard for the Uniform Scheduling of Drugs and Poisons

UN = United Nations

References : EU REACH 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.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

History

Date of printing: 05/04/2015Date of issue/Date of revision: 03/13/2015Date of previous issue: 04/13/2014

Version : 2.1

Prepared by : Yara Product Classifications & Regulations.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue : 03/13/2015 Page:17/17