(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: 08/07/2020Date of previous issue: 08/21/2019Version: 6.0



SAFETY DATA SHEET

YaraVita Phoztrac

Section 1. Identification

GHS product identifier : YaraVita Phoztrac
Product type : Liquid (Suspension)

Product code : PYPADM

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

<u>Supplier</u>

Supplier's details : Yara North America, Inc.

Address

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) 93

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).

Classification of the : SKIN SENSITIZATION - Category 1

substance or mixture. AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P280 Wear protective gloves/clothing and

eye/face protection.

P261 Avoid breathing gas, vapor or spray. P273 Avoid release to the environment.

Response : P391 Collect spillage.

P302 IF ON SKIN:

P352 Wash with plenty of soap and water. P332 + If skin irritation occurs, get medical

P313 advice/attention.

Hazards not otherwise

classified

None.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	CAS number	%
Phosphoric acid, zinc salt (2:3)	7779-90-0	>= 15- <20
3(2H)-Isothiazolone, 2-methyl-	2682-20-4	>= 0.001- <0.01

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

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Eye contact : Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Inhalation : Avoid inhalation of vapor, spray or mist. If inhaled, remove to

fresh air.

Skin contact: Wash with soap and water. Wash with plenty of soap and

water. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid

further exposure.

Ingestion : Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of

water to drink.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Skin contact : May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact: Adverse symptoms may include the following: irritation, redness

Ingestion : No specific data.

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. 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

: None identified.

media

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

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the chemical

container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: nitrogen oxides, phosphorus oxides, metal oxide/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-flammable. 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. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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

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Large spill

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. 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). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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. 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

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water pollution in the event of spillage.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Phosphoric acid, zinc salt (2:3)	None.
3(2H)-Isothiazolone, 2-methyl-	None.

Appropriate engineering controls Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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,

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.

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

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment

specialist before handling this product.

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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.

Personal protective equipment :

(Pictograms)







Section 9. Physical and chemical properties

Appearance

Physical state : Liquid [Suspension]

Color : White., Odor : Odorless.

Odor threshold : Not relevant/applicable due to nature of the product.

pH : 8.8 [Conc.: 100 g/l] @ 20 °C (68 °F)

Melting/freezing point : $< 0 \, ^{\circ}\text{C} \, (< 32 \, ^{\circ}\text{F})$

Boiling/condensation point : 100 °C

(212 °F)

Sublimation temperature:Not determined.Flash point:Not determined.Evaporation rate:Not determined.Flammability (solid, gas):Non-flammable.

Lower and upper explosive

(flammable) limits
Vapor pressure
Bulk density

Lower: Not determined.Upper: Not determined.

Not determined.Not applicable.

Density : 1.591 g/cm3

Relative density : Not applicable.

Solubility : Not applicable.

Solubility in water : Not relevant/applicable due to nature of the product.

Miscibility with water: Miscible in water.Partition coefficient: n-: Not determined.

octanol/water

Auto-ignition temperature : Not determined.

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Decomposition temperature

Not determined.

Viscosity

: **Dynamic:** 1,500 - 2,500 mPa.s

Kinematic: Not determined

Explosive properties Oxidizing properties

Non-explosive.

: None

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this

product or its ingredients.

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 : Urea reacts with calcium hypochlorite or sodium hypochlorite

to form the explosive nitrogen trichloride.

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/ingredie	Method	Species	Result	Exposure	References
nt name					
Phosphoric acid, zi	nc salt (2:3)				
	LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	
3(2H)-Isothiazolone	e, 2-methyl-				
	LD50 Oral	Rat	200 mg/kg	Not applicable.	
	LD50 Dermal	Rat	1,000 mg/kg	Not applicable.	

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

Irritation/Corrosion

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Conclusion/Summary

Skin No known significant effects or critical hazards.

No known significant effects or critical hazards. Eyes

Respiratory No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin May cause an allergic skin reaction.

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

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

Eve contact No known significant effects or critical hazards.

Inhalation Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

Skin contact May cause an allergic skin reaction.

Ingestion No known significant effects or critical hazards.

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Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact: Adverse symptoms may include the following: irritation,

redness

Ingestion : No specific data.

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

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

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

Other effects : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Over-exposure signs/symptoms

Eye contact : No specific data. **Inhalation** : No specific data.

Skin contact : Adverse symptoms may include the following: irritation, redness

Ingestion : No specific data.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingred	Method	Species	Result	Exposure	References
ient name					

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Phosphoric acid, zinc salt (2:3)					
	Acute LC50 Fresh water	Fish.	0.112 mg/l	96 h	IUCLID
3(2H)-Isothiazolo					
	Acute LC50 Fresh water	Rainbow trout,donaldso n trout	0.19 mg/l	96 h	Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.:
	Acute LC50 Fresh water	Bluegill	0.3 mg/l	96 h	Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.:
	Acute EC50 Fresh water	Water flea	0.18 mg/l	48 h	Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.:
	Acute EC50	Algae	0.157 mg/l	72 h	

Conclusion/Summary: Toxic to aquatic life with long lasting effects.

Persistence and degradability

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

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Phosphoric acid, zinc salt (2:3)	Not applicable.	60,960.00	high	

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

Mobility in soil

Soil/water partition coefficient (KOC) Mobility

Not available.

: Not available.

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

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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

Regulation: UN Class	
14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
Environmental hazards	: Yes.

Regulation: IMDG	
14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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	N.O.S.
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
Marine pollutant	: Yes.
Emergency schedules (EmS)	: F-A, S-F

Regulation: IATA	
14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
Marine pollutant :	Yes.

Regulation: DOT Classification		
14.1 UN number	Not Applicable.	
14.2 UN proper shipping name		
14.3 Transport hazard class(es)		
14.4 Packing group		
14.5 Environmental hazards		
Additional information		
Not a DOT controlled material (United States)., This product is not regulated by HMR.		

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Regulation: TDG Class	
14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	•

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark)

Environmental hazards : Yes.

14.6 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.

IMSBC Not applicable.

Transport in bulk according to

IMO instruments

Not available.

Section 15. Regulatory information

United States

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not

determined

United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Phosphoric acid, zinc salt

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Ammonia; Potassium

hydroxide; Sodium hydroxide (Na(OH));

Clean Air Act Section 112(b)

Hazardous Air Pollutants

(HAPs)

Not listed

Clean Air Act Section 602 Not listed

Date of issue: 08/07/2020 Page:14/18 **Class I Substances**

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302/304
Ammonia	>= 0 - < 0.001	Yes.	SARA 302 TPQ: 500 lb(s) SARA 304 RQ: 100 lb(s)

SARA 304 RQ : 11111111.1 lbs

SARA 311/312

Classification : SKIN SENSITIZATION - Category 1

Composition/information on ingredients

Name	%	Classification
3(2H)-Isothiazolone, 2-methyl-	>= 0.001 - < 0.01	ACUTE TOXICITY - inhalation - Category 2 ACUTE TOXICITY - dermal - Category 3 ACUTE TOXICITY - oral - Category 2 ACUTE TOXICITY - oral - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN CORROSION - Category 1B ACUTE TOXICITY - dermal - Category 3 SKIN SENSITIZATION - Category 1A ACUTE TOXICITY - inhalation - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1

SARA 313

Form R - Reporting requirements

Product name	CAS number	%
Phosphoric acid, zinc salt (2:3)	7779-90-0	>= 15 - < 20

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Supplier notification

Product name	CAS number	%
Phosphoric acid, zinc salt (2:3)	7779-90-0	>= 15 - < 20

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

State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.New Jersey: The following components are listed:
Phosphoric acid, zinc salt (2:3)

Pennsylvania : The following components are listed:

Phosphoric acid, zinc salt (2:3)

California Prop. 65

⚠ WARNING: Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov.</u>

Inventory list

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

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

Canada inventory: All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted.

Canada: 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 and the associated label are not required on MSDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

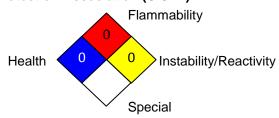
The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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Chronic toxicity:

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

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



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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, 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.

Procedure used to derive the classification

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) -	Calculation method
Category 2	

<u>History</u>

Date of printing: 08/17/2020Date of issue/Date of revision: 08/07/2020Date of previous issue: 08/21/2019

Revision comments: Section 14. Transport information

Version : 6.0

Prepared by Key to abbreviations: Yara Chemical Compliance (YCC).

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and

Labelling of Chemicals

IATA = International Air Transport Association

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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)

SGG = Segregation Group

UN = United Nations

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.

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.

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