(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 : 08/07/2020
Date of previous issue : 08/22/2018
Version : 3.0



SAFETY DATA SHEET

YaraVita PROCOTE BMZ

Section 1. Identification

GHS product identifier : YaraVita PROCOTE BMZ Product type : Liquid (Suspension)

Product code : PYPBUL

<u>Uses</u>

Area of application : Professional applications

Material uses : Fertilizers.

<u>Supplier</u>

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) 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 : SERIOUS EYE DAMAGE - Category 1

substance or mixture. TOXIC TO REPRODUCTION (Fertility) - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the

unborn child.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: P202 Do not handle until all safety precautions

have been read and understood.

P280 Wear protective gloves/clothing and

eye/face protection.

Response : P391 Collect spillage.

P308 IF exposed or concerned: P313-a Get medical attention.

P305 IF IN EYES:

P351 Rinse cautiously with water for several

minutes.

P338 Remove contact lenses, if present and easy

to do. Continue rinsing.

Hazards not otherwise

classified

None.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	CAS number	%
Boron calcium oxide (B6Ca2O11), hydrate (1:5)	12291-65-5	>= 25- <30
Zinc oxide (ZnO)	1314-13-2	>= 15- <20
Poly(oxy-1,2-ethanediyl), .alphaisotridecyl-	73038-25-2	>= 5- <7
.omegahydroxy-, phosphate		
Ulexite (CaNaH12(BO3)5.2H2O)	1319-33-1	>= 1- <2

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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.

Remark : This product contains Boron (see section 7 and 11).

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: Wash with soap and water. Get medical attention if irritation

develops.

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 : Vapor may be irritating to eyes and respiratory system.

Skin contact : No known significant effects or critical hazards. **Ingestion** : 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 : No specific data.

Ingestion : 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.

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

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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 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. 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: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/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.

Remark Remark Non-flammable.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".

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

Large spill

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 handle until all safety precautions have been read and understood. As a precaution, keep exposure as low as possible for pregnant women, children and workers in reproductive age. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. 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. Empty containers retain product residue and can be hazardous. Do not reuse

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Advice on general occupational hygiene

container.

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 locked up. 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.

Specific recommendations to end users

Do not generate and inhale liquid fertilizer aerosols.

In addition to overalls, gloves and eye protection, use of efficient respiratory protection (P2/P3 respirators with a tight face seal) during discharge of fertilizer bags and maintenance of equipment is recommended to minimize inhalation exposure and to ensure safe-use during this activity (see section 8).

Risk assessments show safe use during normal spreading of fertilizers containing below 5% of boron by tractor (liquid or granular) and backpack (liquid).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
Boron calcium oxide	None.	
(B6Ca2O11), hydrate (1:5)		
Zinc oxide (ZnO)	ACGIH TLV (2003-01-01)	
	TWA 2 mg/m3 Form: Respirable fraction	
	STEL 10 mg/m3 Form: Respirable fraction	
	OSHA PEL 1989 (1989-03-01)	
	TWA 5 mg/m3 Form: Fume	
	STEL 10 mg/m3 Form: Fume	
	TWA 10 mg/m3 Form: Total dust	
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Poly(oxy-1,2-ethanediyl), .alphaisotridecylomega	TWA 5 mg/m3 Form: Respirable fraction OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust TWA 5 mg/m3 Form: Respirable fraction TWA 5 mg/m3 Form: Fume NIOSH REL (1994-06-01) TWA 5 mg/m3 Form: Dust and fumes STEL 10 mg/m3 Form: Fume CEIL 15 mg/m3 Form: Dust None.
hydroxy-, phosphate	Nama
Ulexite (CaNaH12(BO3)5.2H2O)	None.

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,

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

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exact composition of the glove material.

> 8 hours (breakthrough time): 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 : Use respiratory protection with more than 94% efficiency (P2,

P3 or N95) and a tight face seal, when risk of exposure to

dust.

Personal protective equipment

(Pictograms)







Section 9. Physical and chemical properties

Appearance

Physical state : Liquid [Suspension]

Color : White.,

Odor : Not determined.
Odor threshold : Not determined.

pH : 7.3

Melting/freezing point:Not determined.Boiling/condensation point:Not determined.Sublimation temperature:Not determined.Flash point:Not determined.Evaporation rate:Not determined.Flammability (solid, gas):Non-flammable.

Lower and upper explosive

(flammable) limits

Lower: Not determined. **Upper:** Not determined.

Vapor pressure : Not determined. **Density** : 1,580 kg/m3

Relative density : Not determined.

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Solubility : Miscible in water.

Partition coefficient: n-

octanol/water

: Not determined.

Auto-ignition temperature : Not determined.

Decomposition temperature :

Viscosity

Not determined.

Dynamic: Not determined.Kinematic: Not determined.

Explosive properties : Non-explosive.

Oxidizing properties : 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 : No specific data.

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 nt name	Method	Species	Result	Exposure	References
Ulexite (CaNaH12(I	BO3)5.2H2O)				
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	
Zinc oxide (ZnO)					
	LD50 Oral	Rat	> 5,000 mg/kg	Not applicable.	IUCLID 5
	LC50 Inhalation Dusts and mists	Rat	> 5.7 mg/l	4 h	IUCLID 5

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	LD50	Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	
Conclusion/Summ	•	:	No knowr	n significant effect	s or critical hazard	ds.
Conclusion/Summ						
Skin		:	No known	significant effect	s or critical hazar	ds.
Eyes		:	Causes s	erious eye damag	je.	
Respiratory		:	No known	significant effect	s or critical hazar	ds.
<u>Sensitization</u>						
Conclusion/Summ Skin Respiratory	nary	:		n significant effect n significant effect		
<u>Mutagenicity</u>						
Conclusion/Summ	nary	:	No known	significant effect	s or critical hazar	ds.
Carcinogenicity						
Conclusion/Summ	-	:	No knowr	n significant effect	s or critical hazard	ds.
Conclusion/Summ	nary	:	Suspecte	d of damaging fer	tility. Suspected c	of damaging

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.

the unborn child.

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Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Vapor may be irritating to eyes and respiratory system.

Skin contact: No known significant effects or critical hazards. **Ingestion**: 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: No specific data.

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

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

Developmental effects : Suspected of damaging the unborn child.

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: No specific data.

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

Numerical measures of toxicity

Acute toxicity estimates

Not available.

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Section 12. Ecological information

Toxicity

Product/ingred	Method	Species	Result	Exposure	References
ient name					
Ulexite (CaNaH12	2(BO3)5.2H2O)				
	Acute EC50	Daphnia	> 100 mg/l	48 h	
	Fresh water				
Zinc oxide (ZnO)					
	Acute NOEC	Fish.	0.026 - 0.075	720 h	IUCLID 5
	Fresh water		mg/l		
	Acute LC50	Crustaceans	0.14 mg/l	24 h	IUCLID 5
	Fresh water				
	Acute EC50	Water flea	1 - 10 mg/l	48 h	IUCLID 5
	Fresh water				
	OECD 201	Algae	0.136 mg/l	72 h	IUCLID
	Acute IC50				
	Fresh water				
Boron calcium ox	ide (B6Ca2O11),	hydrate (1:5)			
	Acute EC50	Daphnia	> 100 mg/l	48 h	
	Fresh water				

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

Persistence and degradability

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

Bioaccumulative potential

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

Mobility in soil

Soil/water partition coefficient (KOC)

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

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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)	© C
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,
	N.O.S.
14.3 Transport hazard class(es)	9

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	9
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
Marine pollutant	: No.
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)	
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.

Regulation: TDG Class	
14.1 UN number	3082

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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	

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

<u>user</u>

: 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

HCS Classification : Not regulated.

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

determined

United States - EPA Clean water act (CWA) section

307 - Priority pollutants: Zinc oxide (ZnO);

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

Clean Air Act Section 112(b)

Hazardous Air Pollutants

(HAPs)

Clean Air Act Section 602

Class I Substances

Listed

: Not listed

Clean Air Act Section 602 : Not listed

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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

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard - Delayed (chronic) health

hazard

Composition/information on ingredients

SARA 313

Form R - Reporting requirements

Product name	CAS number	%
Zinc oxide (ZnO)	1314-13-2	>= 15 - < 20
Carbonic acid, manganese(2+) salt (1:1)	598-62-9	>= 12.5 - < 15

Supplier notification

Product name	CAS number	%
Zinc oxide (ZnO)	1314-13-2	>= 15 - < 20
Carbonic acid, manganese(2+) salt (1:1)	598-62-9	>= 12.5 - < 15

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 : The following components are listed:

Zinc oxide (ZnO)

New York : None of the components are listed.

New Jersey : The following components are listed:

Zinc oxide (ZnO)

Pennsylvania : The following components are listed:

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Zinc oxide (ZnO) Carbonic acid, manganese(2+) salt (1:1)

California Prop. 65

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

Inventory list

Australia inventory (AICS): All components are listed or exempted.

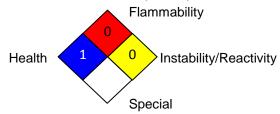
Canada inventory: All components are listed or exempted.

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

Canada: All components are listed or exempted.

Section 16. Other information

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
SERIOUS EYE DAMAGE - Category 1	Calculation method
TOXIC TO REPRODUCTION (Fertility) -	Calculation method
Category 2	
TOXIC TO REPRODUCTION (Unborn child)	Calculation method

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- Category 2	
AQUATIC HAZARD (LONG-TERM) -	Calculation method
Category 2	

History

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Revision comments : Section 14. Transport information

Version : 3.0

Prepared by : Yara Chemical Compliance (YCC).

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

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 = 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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