

Date of issue/ Date of revision : 03/25/2021
Date of previous issue : 06/21/2019
Version : 4.0



SAFETY DATA SHEET

YaraVita Agripotash

Section 1. Identification

Product identifier : YaraVita Agripotash
Product type : Liquid
Product code : PYP06M

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 : yna-hesq@yara.com
responsible for this SDS

Emergency telephone number : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300
(with hours of operation) Canada: 24 Hour Emergency service, CHEMTREC 1-800-424-9300

Section 1. 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
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
TOXIC TO REPRODUCTION (Fertility) - Category 1
TOXIC TO REPRODUCTION (Unborn child) - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) - Category 2

GHS label elements**Hazard pictograms**

:

**Signal word**

:

Danger

Hazard statements

:

H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H360 May damage fertility or the unborn child.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure. (respiratory tract)

Precautionary statements**Prevention**

:

P280 Wear protective gloves and eye/face protection.
 P202 Do not handle until all safety precautions have been read and understood.

Response

:

P260 Do not breathe gas or vapour.
 P314-a Get medical attention if you feel unwell.
 P305 IF IN EYES:
 P351 Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.
 P303 IF ON SKIN (or hair):
 P361 Take off immediately all contaminated clothing.
 P353 Rinse skin with water.

Storage

:

P234 Keep only in original packaging.

Section 3. Composition/information on ingredients**Substance/mixture**

:

Mixture

Ingredient name	CAS number	% (w/w)
Carbonic acid, potassium salt (1:2)	584-08-7	37.4662
Diphosphoric acid, potassium salt (1:4)	7320-34-5	12.0514
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)	64-02-8	1.1318
Boric acid	10043-35-3	0.9646
Sodium hydroxide (Na(OH))	1310-73-2	0.0244

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 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. If breathing is difficult, give oxygen. |
| Skin contact | : | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Continue to rinse for at least 10 minutes. 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 | : | May cause respiratory irritation. Vapor may be irritating to eyes and respiratory system. |
| Skin contact | : | Causes severe burns. |
| 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 | : | Adverse symptoms may include the following: respiratory tract irritation, coughing |
| Skin contact | : | Adverse symptoms may include the following: pain or irritation, blistering may occur |
| 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 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 the chemical | : | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Hazardous thermal decomposition products | : | 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). 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. 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 acids. 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
Boric acid	CA British Columbia Provincial (2005-04-01) TWA 2 mg/m ³ Form: INHALABL STEL 6 mg/m ³ Form: INHALABL CA Ontario Provincial (2015-06-29) TWA 2 mg/m ³ Form: Inhalable fraction STEL 6 mg/m ³ Form: Inhalable fraction CA Saskatchewan Provincial (2007-08-10) STEL 6 mg/m ³ Form: Inhalable fraction TWA 2 mg/m ³ Form: Inhalable fraction
Sodium hydroxide (Na(OH))	CA Alberta Provincial (2009-07-01) CEIL 2 mg/m ³ CA British Columbia Provincial (2004-08-01) CEIL 2 mg/m ³ CA Ontario Provincial (2015-06-29) CEIL 2 mg/m ³ CA Quebec Provincial (2000-01-12) STEL 2 mg/m ³ CA Saskatchewan Provincial (2007-08-10) CEIL 2 mg/m ³

Appropriate engineering controls

- : Use only with adequate ventilation. 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 exact composition of the glove material.
> 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 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
- Color** : Transparent,
- Odor** : Odorless.
- Odor threshold** : Not relevant/applicable due to nature of the product.
- pH** : 13.5 @ 20 °C (68 °F)
- Melting/freezing point** : < -5 °C
- 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** : **Lower:** Not determined.
Upper: Not determined.
- Vapor pressure** : Not determined.
- Bulk density** : Not applicable.
- Density** : 1.555 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-octanol/water	:	Not determined.
Auto-ignition temperature	:	Not determined.
Decomposition temperature	:	Not determined.
Viscosity	:	Dynamic: < 100 mPa.s
		Kinematic: Not determined
Explosive properties	:	Non-explosive.
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	:	Reactive or incompatible with the following materials: acids, metals
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	References
Carbonic acid, potassium salt (1:2)					
	LD50 Oral	Rat	> 2,000 mg/kg	Not applicable.	IUCLID 5
Diphosphoric acid, potassium salt (1:4)					
	LD50 Dermal	Rabbit	> 4,640 mg/kg	Not applicable.	NTIS** OTS0571153
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)					
	OECD 401	Rat	1,780 mg/kg	Not	IUCLID

Date of issue : 03/25/2021

Page:8/16

	LD50 Oral			applicable.	
Boric acid					
	LD50 Oral	Rat	3,450 mg/kg	Not applicable.	IUCLID 5
	LD50 Dermal	Rabbit	> 5,000 mg/kg	Not applicable.	IUCLID

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

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure	References
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)					
	OECD 405 Eyes	Rabbit	Damage		ECHA
Sodium hydroxide (Na(OH))					
	Skin	Rabbit	Severe irritant		

Conclusion/Summary

Skin : Corrosive to the skin.

Eyes : Causes serious eye damage.

Respiratory : May cause respiratory irritation.

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	References
Boric acid					
	Oral	Rat	Fertility effects- Positive NOEL	3 weeks Repeated dose;	IUCLID 5

Conclusion/Summary : May damage fertility. May damage the unborn child.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Carbonic acid, potassium salt (1:2)	Category 3	Not applicable	Not determined

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)	Category 2	Not determined	Not determined

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 : May cause respiratory irritation. Vapor may be irritating to eyes and respiratory system.
Skin contact : Causes severe burns.
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 : Adverse symptoms may include the following: respiratory tract irritation, coughing
Skin contact : Adverse symptoms may include the following: pain or irritation, 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	Method	Species	Result	Exposure	References
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)					
	OECD 413 Sub-chronic NOAEL Inhalation	Rat	3 mg/m ³ Continuous	65 days 6 hours per day	ECHA

Carcinogenicity : No known significant effects or critical hazards.

- Mutagenicity** : No known significant effects or critical hazards.
- Fertility effects** : May damage fertility.
- Developmental effects** : May damage the unborn child.
- Effects on or via lactation** : No known significant effects or critical hazards.
- Other effects** : May cause damage to organs through prolonged or repeated exposure.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : Adverse symptoms may include the following: respiratory tract irritation, coughing
- Skin contact** : Adverse symptoms may include the following: pain or irritation, blistering may occur
- Ingestion** : May cause burns to mouth, throat and stomach.

Numerical measures of toxicity**Acute toxicity estimates**

Route	ATE value
Oral	138,318.2 mg/kg
Inhalation (dusts and mists)	66.91 mg/l

Section 12. Ecological information**Toxicity**

Product/ingredient name	Method	Species	Result	Exposure	References
Carbonic acid, potassium salt (1:2)					
	Acute LC50 Fresh water	Fish	68 mg/l	96 h	IUCLID
	Acute EC50	Daphnia	200 mg/l	48 h	IUCLID
Diphosphoric acid, potassium salt (1:4)					
	Acute LC50 Fresh water	Fish	> 100 mg/l	96 h	IUCLID
	Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h	IUCLID
	Acute EC50 Fresh water	Algae	> 100 mg/l	72 h	IUCLID
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)					
	Acute LC50 Fresh water	Fish	> 1,000 mg/l	96 h	
Boric acid					
	Acute LC50 Fresh water	Fish	> 100 mg/l	4 d	IUCLID
	Acute EC50 Fresh water	Daphnia	> 100 mg/l	2 d	IUCLID
Sodium hydroxide (Na(OH))					
	Acute LC50	Fish	35 - 196 mg/l	96 h	IUCLID 5
	Acute EC50	Water flea	40.38 mg/l	48 h	Ecotoxicol.En

Fresh water

viron.Saf.
44(2):196-206

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
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)]	5.01	1.80	low
Boric acid	0.175-1.09	Not applicable.	low

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 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 3266


14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (tetrapotassium pyrophosphate, potassium carbonate,)
14.3 Transport hazard class(es)	8 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information <u>Environmental hazards</u> : No.	

Regulation: IMDG	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (tetrapotassium pyrophosphate, potassium carbonate,)
14.3 Transport hazard class(es)	8 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information <u>Marine pollutant</u> : No. <u>IMDG Code Segregation group</u> : SG18 <u>Emergency schedules (EmS)</u> : F-A, S-B	

Regulation: IATA	
14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (tetrapotassium pyrophosphate, potassium carbonate,)
14.3 Transport hazard class(es)	8 
14.4 Packing group	II
14.5 Environmental hazards	No.
Additional information	

Marine pollutant : No.


Regulation: DOT Classification

14.1 UN number	UN3266
14.2 UN proper shipping name	Corrosive liquid, basic, inorganic, n.o.s. (tetrapotassium pyrophosphate, potassium carbonate,)
14.3 Transport hazard class(es)	8 
14.4 Packing group	II
14.5 Environmental hazards	No.

Additional information

Marine pollutant : Not available.

Regulation: TDG Class

14.1 UN number	3266
14.2 UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (tetrapotassium pyrophosphate, potassium carbonate,)
14.3 Transport hazard class(es)	8 
14.4 Packing group	II
14.5 Environmental hazards	No.

Additional information

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

Environmental hazards : No.

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

Canadian lists

- Canadian NPRI** : The following components are listed: Diphosphoric acid, potassium salt (1:4)
- 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.

Japan inventory: All components are listed or exempted.

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

Canada inventory: All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): 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.

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
 - 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)
 - 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
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data
TOXIC TO REPRODUCTION (Fertility) - Category 1	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY	Calculation method

(REPEATED EXPOSURE) (respiratory tract) - Category 2	
--	--

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.

History

Date of printing : 09/06/2021
Date of issue/Date of revision : 03/25/2021
Date of previous issue : 06/21/2019

Revision comments : Section 1. National advisory body/Poison Center
Section 2. Classification

Version : 4.0
Prepared by : Yara Chemical Compliance (YCC).

|| 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.