

Date of issue/ Date of revision : 09.01.2023
Date of previous issue : 21.08.2019
Version : 5.0



SAFETY DATA SHEET

Yaravita Kombiphos

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Yaravita Kombiphos
Product code : PYPAQM
Product type : Liquid

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Industrial distribution. Industrial USE to formulate chemical product mixtures. Professional formulation of fertiliser products. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field. Professional USE as fertiliser - maintenance of equipment.

Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier cannot approve this use.

1.3 Details of the supplier of the safety data sheet

Yara AB
Address
Street : Östra Varvsgatan
Number : 4
Postal code : 211 75
City : Malmö
Country : Sweden

P.O. Box Address
P.O. Box : BOX 4505
Postal code : 203 20
City : Malmö
Country : Sweden
Telephone number : 0101396000
Fax no. : 0101396001

e-mail address of person responsible for this SDS : yara.kundservice@yara.com

1.4 Emergency telephone number

National advisory body/Poison Center

Name : Giftinformationscentralen / Swedish Poisons Information Centre
 Telephone number : 112 – begär Giftinformation / 112 – ask for Poison Information
 Hours of operation : 24h

Supplier

Emergency telephone number (with hours of operation) : 08 5664 2573 (Carechem, 24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture.

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification : Met. Corr. 1, H290
 Skin Corr. 1C, H314
 Eye Dam. 1, H318

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention : P280 Wear protective gloves/clothing and eye/face protection.
 P260 Do not breathe gas or vapour.
 Response : P305 IF IN EYES:
 P351 Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P303 IF ON SKIN (or hair):

Storage : P361 Take off immediately all contaminated clothing.
 P353 Rinse skin with water.
 P234 Keep only in original packaging.

Hazardous ingredients : phosphoric acid
 calcium bis(dihydrogenorthophosphate)
 manganese dinitrate

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Applicable, Table 3.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.
Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.
Additional information : None.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
phosphoric acid	REACH #: 01-2119485924-24 EC : 231-633-2 CAS : 7664-38-2 Index: 015-011-00-6	>= 15 - <= 20	Met. Corr. 1, H290 Eye Dam. 1, H318 Skin Corr. 1B, H314 Acute Tox. 4, H302	Met. Corr. 1, H290: >= 20 % ATE [Oral] = 500 mg/kg Skin Corr. 1B, H314: >= 25 % Skin Irrit. 2, H315: 10 - < 25 % Eye Dam. 1, H318: >= 25 % Eye Irrit. 2, H319: 10 - < 25 %	[1] [2]
calcium bis(dihydrogenorthophosphate)	REACH #: 01-2119490065-39 EC : 231-837-1 CAS :	>= 3 - <= 5	Eye Dam. 1, H318	-	[1]

manganese dinitrate	7758-23-8 REACH #: 01-2119487993-17 EC : 233-828-8 CAS : 10377-66-9	>= 2 - <= 2,5	Ox. Sol. 2, H272 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 (brain) (inhalation) Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1] [2]
zinc bis(dihydrogen phosphate)	REACH #: 01-2119485974-19 EC : 237-067-2 CAS : 13598-37-3	>= 1 - <= 2	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 1.990 mg/kg M [Acute] = 1	[1]

See Section 16 for the full text of the H statements declared above.

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of 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.
- Inhalation** : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
- 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.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following: pain, watering, redness
- Inhalation** : No specific data.

- Skin contact** : Adverse symptoms may include the following: pain or irritation, blistering may occur
- Ingestion** : May cause burns to mouth, throat and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None identified.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. Reacts violently with water. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Acidic. In a fire, decomposition may produce toxic gases/fumes.
- Hazardous combustion products** : Decomposition products may include the following materials: phosphorus oxides, halogenated compounds, 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.

5.3 Advice for firefighters

- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 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".

6.2 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).

6.3 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. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Not for human or animal consumption.

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe the 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.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

Recommendations : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
phosphoric acid	Work environment authority Regulation 2018:1 (1996-08-01). TWA 1 mg/m ³ STEL 2 mg/m ³ EU OEL (2000-06-01). TWA 1 mg/m ³ STEL 2 mg/m ³
manganese dinitrate	Work environment authority Regulation 2018:1 (2018-08-21). TWA 0,2 mg/m ³ (as manganese) Form: Inhalable fraction TWA 0,05 mg/m ³ (as manganese) Form: respirable fraction EU OEL (2017-02-21). TWA 0,05 mg/m ³ (as manganese) Form: Respirable fraction TWA 0,2 mg/m ³ (as manganese) Form: Inhalable fraction

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.


DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
phosphoric acid	DNEL	Long term Inhalation	10,7 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	2 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	4,57 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	0,36 mg/m ³	General population [Consumers]	Local
	DNEL	Long term Oral	0,1 mg/kg bw/day	General population [Consumers]	Systemic
zinc bis(dihydrogen phosphate)	DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	8,3 mg/kg bw/day	Workers	Systemic

PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
zinc bis(dihydrogen phosphate)	PNEC	Fresh water	20,6 µg/l	Not applicable.
	PNEC	Marine water	6,1 µg/l	Not applicable.
	PNEC	Sewage Treatment Plant	100 µg/l	Not applicable.
	PNEC	Fresh water sediment	117,8 mg/kg dwt	Not applicable.
	PNEC	Marine water sediment	56,5 mg/kg dwt	Not applicable.
	PNEC	Soil	35,6 mg/kg dwt	Not applicable.

8.2 Exposure controls

- 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.
- Individual protection measures**
- Hygiene measures** : A washing facility or water for eye and skin cleaning purposes should be present. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
Recommended: Tightly-fitting goggles, Europe., CEN: EN166,
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : In case of inadequate ventilation wear respiratory protection.
Recommended
full-face mask
acid gas filter (Type E)
- 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.
- Personal protective equipment (Pictograms)** : 

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Red.,
Odor	:	Odorless.
Melting point/freezing point	:	< -10 °C
Initial boiling point and boiling range	:	> 100 °C
Flammability	:	Non-flammable.
Lower and upper explosion limit	:	Lower: Not applicable. Upper: Not applicable.
Flash point	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable.
pH	:	1,8 [Conc. (% w/w): 1.000 g/l]
Viscosity	:	Dynamic: < 100 mPa.s Kinematic: Not determined
Miscibility with water	:	Miscible in water.
Partition coefficient: n-octanol/water	:	Not applicable.
Vapor pressure	:	< 23 hPa
Density	:	1,482 g/cm ³
Relative vapour density	:	< 1 [Air = 1]
Explosive properties	:	Non-explosive.
Oxidizing properties	:	Non-oxidizer. No oxidizing ingredients present.

Particle characteristics

Median particle size	:	Not applicable.
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9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

<u>10.1 Reactivity</u>	:	May be corrosive to metals. Expert judgment
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<u>10.2 Chemical stability</u>	:	The product is stable.
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<u>10.3 Possibility of hazardous</u>	:	Under normal conditions of storage and use, hazardous
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reactions reactions will not occur.

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

10.5 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, metals

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

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure
phosphoric acid				
	OECD 423 LD50 Oral	Rat	300 mg/kg	Not applicable.
calcium bis(dihydrogenorthophosphate)				
	LD50 Oral	Rat	3.986 mg/kg	Not applicable.
	LD50 Dermal	Rabbit	> 5.000 mg/kg	Not applicable.
manganese dinitrate				
	OECD 420 LD50 Oral	Rat - Female	> 300 mg/kg	Not applicable.
zinc bis(dihydrogen phosphate)				
	LD50 Oral	Rat	1.990 mg/kg	Not applicable.

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

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Yaravita Kombiphos	2.783,3 mg/kg	N/A	N/A	N/A	N/A
phosphoric acid	500 mg/kg	N/A	N/A	N/A	N/A
calcium bis(dihydrogenorthophosphate)	3.986 mg/kg	N/A	N/A	N/A	N/A
manganese dinitrate	500 mg/kg	N/A	N/A	N/A	N/A
zinc bis(dihydrogen phosphate)	1.990 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure
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phosphoric acid				
	Primary dermal irritation index (PDII) Skin	Rabbit	Visible necrosis	1 h
calcium bis(dihydrogenorthophosphate)				
	OECD 405 Eyes	Rabbit	Severe irritant	
manganese dinitrate				
	OECD 404 Skin	Rabbit	Visible necrosis	4 h

Conclusion/Summary

- Skin** : Corrosive to the skin.
Eyes : Causes serious eye damage.
Respiratory : No known significant effects or critical hazards.

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

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

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
manganese dinitrate	Category 2	inhalation	brain

- Information on the likely routes of exposure** : Not available.

Potential acute health effects

- Inhalation** : Vapor is strongly irritating to the eyes and respiratory system.
Ingestion : May cause burns to mouth, throat and stomach.
Skin contact : Causes severe burns.
Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : No specific data.
Ingestion : May cause burns to mouth, throat and stomach.
Skin contact : Adverse symptoms may include the following: pain or

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

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

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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

Other effects : No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties : Not available.

11.2.2 Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Method	Species	Result	Exposure
phosphoric acid				
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h
	OECD 201 Acute EC50 Fresh water	Algae	> 100 mg/l	72 h
calcium bis(dihydrogenorthophosphate)				
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h
manganese dinitrate				
	Acute LC50 Marine water	Fish	55 - 68 mg/l	96 h
	OECD 202 Acute EC50 Fresh water	Daphnia	> 100 mg/l	48 h

	OECD 201 Acute EC50 Fresh water	Algae	61 mg/l	72 h
zinc bis(dihydrogen phosphate)				
	Acute LC50 Fresh water	Fish	0,78 mg/l	96 h

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

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
zinc bis(dihydrogen phosphate)	Not applicable.	60.960,00	high

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

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : Not available.

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

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

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. Unused product can be spread on field according to current recommendations or be treated as hazardous waste.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code	Waste designation
06 01 04*	phosphoric and phosphorous acid





Packaging**Methods of disposal**

- : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. The collection of empty package is done through SVEP-retur, www.svepretur.se

Special precautions

- : 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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	3264	3264	3264	3264
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid,)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid,)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid,)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid,)
14.3 Transport hazard class(es)	8 	8 	8 	8 
14.4 Packing group	III	III	III	III
14.5. Environmental hazards	No.	Yes.	No.	No.

Additional information

ADR/RID

- : **Hazard identification number** 80
Tunnel code (E)

ADN
IMDG

- : **Danger code** N3
: **IMDG Code Segregation group** SG1
Emergency schedules (EmS) F-A, S-B

IATA

:

- Remark** : Remarks re ADN:
The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
- 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.
- 14.7 Maritime transport in bulk according to IMO instruments** **Proper shipping name** : Not listed.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII : Applicable, Table 3.

- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

- Biocidal products regulation** : Not applicable.
- Flammable liquid class (SRVFS 2005:10)** : Not available.
- Flammable liquid class (SRVFS 2005:10)** : Not available.
- Ordinance on Thermoset Plastics** : Not applicable.

Notes : To our knowledge no other country or state specific regulations are applicable.

15.2 Chemical Safety Assessment : Complete.

SECTION 16: Other information

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- DMEL = Derived Minimal Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- bw = Body weight

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.
- Regulation (EC) No 1272/2008 Annex VI.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Met. Corr. 1, H290	Expert judgment
Skin Corr. 1C, H314	Expert judgment
Eye Dam. 1, H318	On basis of test data

Full text of abbreviated H statements

H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1

Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Ox. Sol. 2	OXIDIZING SOLIDS - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Revision comments : The safety data sheet has been revised according to Commission Regulation (EU) 2020/878.

Date of printing : 17.02.2023
Date of issue/ Date of revision : 09.01.2023
Date of previous issue : 21.08.2019
Version : 5.0
Prepared by : Product Stewardship and Compliance (PSC).

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

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.



**Annex to the extended Safety Data Sheet (eSDS) -
Exposure Scenario/Safe Use Information:**

Identification of the substance or mixture

Product definition : Mixture

Product name : Yaravita Kombiphos

Exposure Scenario/Safe Use Information : Exposure Scenarios are not attached for corrosive or irritant hazards, relevant information on safe use is included in section 8.

