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SAFETY DATA SHEET

YaraVita SEEDLIFT

Section 1. Identification

Product identifier : YaraVita SEEDLIFT
Product type : Liquid (Suspension)
Product code : PYPDGL

Uses

Area of application : Professional applications
Material uses : Fertilizers.

Supplier

Supplier's details : YARA CHILE

Address

Street : A. Pedro de Valdivia
#1215, office 309
Providencia
City : Providencia, Santiago
Country : Chile

Telephone number : 56 2 2232 57 12
Fax no. : 56 2 2234 14 34
e-mail address of person : yarachile@yara.com
responsible for this SDS
Emergency telephone number : +56 2 2582 93 36 (NCEC)
(7/24)

Section 1. National advisory body/Poison Center

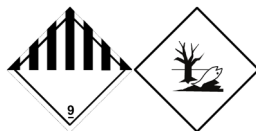
Name : RITA Chile
Telephone number : +56 2 2777 19 94 (RITA)

Section 2. Hazard identification

Classification according to : UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
NCh382 LIQUID, N.O.S., (zinc compounds, trizinc
bis(orthophosphate)), 9, III

Label according to NCh2190

:



Classification of the substance or mixture.

:

AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

:

P273 Avoid release to the environment.

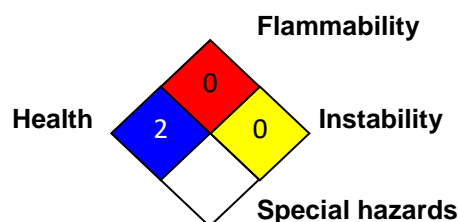
Response

:

P391 Collect spillage.

Supplemental label elements

:

Safety signs according to NCh1411/4

Other hazards which do not result in classification

:

None known.

Additional information

:

None.

Section 3. Composition/information on ingredients

Substance/mixture

:

Mixture

Ingredient name	CAS number	%
zinc oxide	1314-13-2	$\geq 10 - \leq 13,4$
trizinc bis(orthophosphate)	7779-90-0	$\geq 10 - \leq 11,5$
pyridine-2-thiol 1-oxide, sodium salt	3811-73-2	$\geq 0,001 - < 0,01$

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. 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. |

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 | : | No known significant effects or critical hazards. |
| Ingestion | : | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

- | | | |
|---------------------|---|-------------------|
| Eye contact | : | No specific data. |
| Inhalation | : | No specific data. |
| Skin contact | : | No specific data. |
| Ingestion | : | No specific data. |

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

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| 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. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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| 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. This material is very toxic to aquatic life. 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-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 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.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Not for human or animal consumption.

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| Protective measures | : | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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 water pollution in the event of spillage. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
zinc oxide	ACGIH TLV (2003-01-01). TWA 2 mg/m ³ Form: Respirable fraction STEL 10 mg/m ³ Form: Respirable fraction Ministry of Health (2000-07-28). STEL 10 mg/m ³ Form: Fume Ministry of Health (2015-04-24). TWA 4,4 mg/m ³ Form: Fume

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|-----------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |
| 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

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| 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. |
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| 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. |
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Skin protection

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| 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. |
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| Body protection | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved. |
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| 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. |
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| Respiratory protection | : | In case of inadequate ventilation wear respiratory protection. |
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Personal protective equipment (Pictograms)



Section 9. Physical and chemical properties and safety characteristics

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

Appearance

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|-----------------------|---|---------------------|
| Physical state | : | Liquid [Suspension] |
| Color | : | Beige., |
| Odor | : | Slight |
| Odor threshold | : | Not determined. |

pH	: 9,5
Melting point/freezing point	: Not determined.
Boiling point, initial boiling point, and boiling range	: Not applicable.
Flash point	: Not applicable.
Evaporation rate	: Not determined.
Flammability	: Non-flammable.
Lower and upper explosion limit/flammability limit	: Lower: Not determined. Upper: Not determined.
Vapor pressure	: Not determined.
Relative density	: Not determined.
Density	: 1.742 g/cm ³
Solubility	: Miscible in water.
Partition coefficient: n-octanol/water	: Not applicable.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not determined.
Viscosity	: Dynamic: Not determined. Kinematic: Not determined.
Explosive properties	: Non-explosive.
Oxidizing properties	: None
<u>Particle characteristics</u>	
Median particle size	: Not applicable.

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/ingredient name	Method	Species	Result	Exposure
zinc oxide				
	LD50 Oral	Rat	> 5.000 mg/kg	Not applicable.
	LC50 Inhalation Dusts and mists	Rat	> 5,7 mg/l	4 h
	OECD 402 LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.
trizinc bis(orthophosphate)				
	LD50 Oral	Rat	> 5.000 mg/kg	Not applicable.
pyridine-2-thiol 1-oxide, sodium salt				
	OECD 401 LD50 Oral	Rat	1.208 mg/kg	Not applicable.
	LC50 Inhalation Dusts and mists	Rat	1,08 mg/l	4 h
	LD50 Dermal	Rabbit	720 mg/kg	Not applicable.

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

Irritation/Corrosion

Product/ingredient name	Method	Species	Result	Exposure
pyridine-2-thiol 1-oxide, sodium salt				
	Eyes	Rabbit	Irritant	
	OECD 404 Skin	Rabbit	Irritant	

Conclusion/Summary

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards.

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 (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

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 : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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

Over-exposure signs/symptoms

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

Ingestion : No specific data.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
pyridine-2-thiol 1-oxide, sodium salt	1.208 mg/kg	720 mg/kg	N/A	N/A	1,08 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Method	Species	Result	Exposure
zinc oxide				
	OECD 203 Acute LC50 Fresh water	Fish	0,1 - 1 mg/l	96 h
	OECD 202 Acute EC50 Fresh water	Daphnia	0,1 - 1 mg/l	48 h
	OECD 201 Acute IC50 Fresh water	Algae	0,136 mg/l	72 h
trizinc bis(orthophosphate)				
	Acute LC50 Fresh water	Fish	0,112 mg/l	96 h
pyridine-2-thiol 1-oxide, sodium salt				
	OECD 203 Acute LC50 Fresh water	Fish	0,0066 mg/l	96 h
	Acute EC50 Fresh water	Daphnia	0,022 mg/l	48 h
	Acute EC50 Fresh water	Algae	0,46 mg/l	96 h

Conclusion/Summary : Very toxic to aquatic life. 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
zinc oxide	Not applicable.	28.960,00	Not applicable.
trizinc bis(orthophosphate)	Not applicable.	60.960,00	high

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

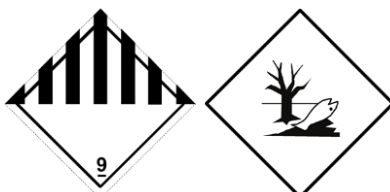
Mobility in soil

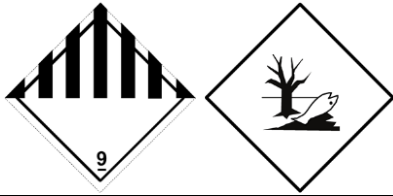
Soil/water partition coefficient (KOC)	:	Not available.
Mobility	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.


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.
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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. (zinc oxide, Zinc phosphate,)
14.3 Transport hazard class(es)	9 
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
<u>Environmental hazards</u>	: Yes.
Regulation: IMDG	
14.1 UN number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, Zinc phosphate,)
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14.3 Transport hazard class(es)	9 
14.4 Packing group	III
14.5 Environmental hazards	Yes.
Additional information	
<u>Marine pollutant</u>	: Yes.
<u>Emergency schedules (EmS)</u>	: F-A, S-F

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

IMSB : Not applicable.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

The recipient should verify the possible existence of local regulations applicable to the chemical product.

Country information : NCh382:2019: Dangerous goods - classification
 NCh2190:2003: Transport of dangerous goods – Signs for risk identification
 NCh1411/4:2001: Risk Prevention – Part 4: Signs for Material Hazard Identification
 D.S. 3557: Provisions on agricultural protection
 D.S. 594: Regulation on sanitary and environmental conditions in the workplace

D.S. 298: Transport of dangerous cargo on streets and roads
 D.S. 148: Health regulations on hazardous waste management
 D.S. 43: Storage of dangerous substances
 Exempt Res. 408/2016: Approved list of dangerous substances to health
 Exempt Res. 1035/2011: Tolerance margins for fertilizer products that are imported, manufactured and commercialized in the country

Inventory list

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

Australia inventory (AII): 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: Not determined.

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)
 N/A = Not available
 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
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

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.

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Date of next revision	:	No later than 3 years

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

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