

SAFETY DATA SHEET

according to regulation of European parliament and Council (ES) number 1907/2006
according Committee regulation (EU) number 878/2020



Date of Issue:	10. 05. 2024	Version number:	1	No. of pages:	10
Revision date:		Replaces version:	-		
Product name:	SANAKRYL LESK PROF/VS				

1. Section 1: Identification of substance/mixture and of the company/undertaking	
1.1 Product identifier:	SANAKRYL LESK PROF/VS
The product is not a nanoform, nor does it contain any nanoforms.	
UFI code:	not relevant
1.2 Relevant identified uses of the substance or mixture and uses advised against:	
1.2.1 Relevant identified use:	
Life cycle phases:	PW (wide use by professionals - basic) IS (use in industrial installations)
Usage Name:	SU0
Other usage description:	burning anticorrosive coating material
Market description:	PC9a; PC14
Contributing Activity Name:	spraying techniques in industrial plants non-industrial spraying techniques
Contributing activities descriptor:	PROC7 PROC11
More information:	technical function of the product in burning anticorrosive coating this use: material quantity to use: 0 - 10 t / yr Regulatory status by use: No a limited number of devices for this use: No the subsequent period of use relevant to this use: 24 months an overview of environmental release categories for each life cycle stage: ERC2; ERC5; ERC8c; ERC8f; ERC10a; ERC11a; ERC12a supplied as a mixture all other uses
1.2.2 Uses advised against:	
1.3 Details of the supplier of the safety data sheet:	
Producer and supplier:	AUSTIS a. s.
Address:	K Austisu 680, 154 00 PRAHA 5 - Slivenec
Telephone number:	+420 251 099 111
Fax:	+420 251 099 112
e-mail	austis@austis.cz
1.4 Emergency telephone number:	+420 251 099 247 +420 725 491 378
Centre of the Toxicologicaly information Na Bojišti 1, 120 00 Prague 2, CZ	Tel.: +420 224 919 293
2. Section 2: Hazard identification	
2.1 Classification of the substance or mixture	The mixture is classified as dangerous for the environment.
Classification under Regulation 1272/2008/EU	Aquatic Chronic 2; H411
2.2 Label elements	
Symbols:	GHS 09
Signal word:	No signal word is used
It contains a hazardous substance:	trizinc bis(orthophosphate) and zinc oxide
Hazard Statement:	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement:	P273: Avoid release to the environment. P391: Collect spillage. P501: Dispose of contents/container by incineration in an incineration or disposal of hazardous waste in landfills for hazardous waste.
2.3 Other hazards:	The mixture does not meet criteria to be classified as PBT or vPvB substances. The mixture is not endocrine disruptor, nor does it contain any.

Other risks:

EUH208: It contains a 2,4,7,9-tetramethyldec-5-yne-4,7-diol [ES: 204-809-1]. May cause an allergic reaction.

3. Section 3: Composition / information on ingredients

A mixture of waterborne urethane-modified polyester resins, melamine resin, pigments, fillers and special additives.

3.2 Mixtures

Chemical name: **trizinc bis (orthophosphate)**

Content [%]: < 5,5
Index number: 030-011-00-6
CAS: 7779-90-0
EC number (EINECS): 231-944-3
REACH Registration number: 01-2119485044-40-00XX
Classification according to Directive 1272/2008/EU: Aquatic Acute 1; H400
Aquatic Chronic 1; H410
Specific concentration limits, M-factors: M = 1 (acute)
M = 1 (chronic)

Chemical name:	2-(2-butoxyethoxy)ethanol	2-butoxyethanol
Content [%]:	< 0,44	< 0,38
Index number:	603-096-00-8	603-014-00-0
CAS:	112-34-5	111-76-2
EC number (EINECS):	203-961-6	203-905-0
REACH Registration number:	01-2119475104-44-0XXX	01-2119475108-36-00XX
Classification according to Directive 1272/2008/EU:	Eye Irrit. 2; H319	Acute Tox. 3; H331 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315

Specific concentration limits, M-factors: Not Assigned
inhalation:
ATE = 3 mg/l (vapour)
oral:
ATE = 1 200 mg/kg bw
Established Exposure limit
EH40/2005 (WELs):
Established Exposure limit
EH40/2005 (WELs):

Chemical name:	2,4,7,9-tetramethyldec-5-yne-4,7-diol	zinc oxide
Content [%]:	< 0,38	< 0,17
Index number:	neuedeno	030-013-00-7
CAS:	126-86-3	1314-13-2
EC number (EINECS):	204-809-1	215-222-5
REACH Registration number:	01-2119954390-39-0XXX	01-2119463881-32-0XXX
Classification according to Directive 1272/2008/EU:	Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Chronic 3; H412	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Specific concentration limits, M-factors: Not Assigned
M = 1 (acute)
M = 1 (chronic)

Note: This mixture contains ≥ 1 % titanium dioxide. The classification of titanium dioxide according to Annex VI (as per Regulation (EC) No 1272/2008 of the European Parliament and of the Council) does not apply to this mixture according to Note 10.

Full text of H - phrases in Section 16

4. Section 4: First aid measures

4.1 Description of first aid measures

When providing first aid it is necessary to ensure safety of both victim and person rescuing. It is necessary to avoid chaotic behavior. Victim must be kept in mental and physical rest. Victim must be kept warm and must not get chilled. Take original container with label or safety data sheet with information about substance or mixture with you in case of medical examination.

Inhalation: Break exposure, move to fresh air protecting the victim from cold. Provide medical treatment especially if coughing, shortness of breath or other symptoms persist.

When on skin: Put away contaminated clothes and shoes, wash the contaminated spot with plenty of tepid water; if the skin is not irritated, soap can be used; seek doctor's advice, especially if the skin stays irritated.

Eye Contact: Rinse eyes with plenty of water (10 to 15 min). Keep eyes open (even by force if necessary). If the victim is wearing contact lenses remove them immediately. Seek medical attention.

Ingestion: Do not induce vomiting! Drink at least 0.5 liters of water with 5 to 10 tablets of crushed charcoal. In case of nausea contact the Toxicology Information Centre for need of medical treatment with information about composition of the mixture from the original container or SDS.

4.2 Most important symptoms and effects, both acute and delayed

The product may have adverse effects through inhalation and if swallowed. It can irritate skin, mucous membranes and eyes.

4.3 Indication of any immediate medical attention and special treatment needed: Symptomatic treatment

5. Section 5: Fire-fighting measures

- 5.1 Extinguishing media
Suitable extinguishing media: The product is not inflammable. Water spray (water mist), foam, carbon dioxide, dry powder.
Unsuitable extinguishing media: The strong water current. It can be spread fire.
- 5.2 Specific danger linked to the substance or mixture: Carbon monoxide can be produced while burning.
- 5.3 Advice for firefighters: wear a breathing apparatus and protective clothing.

6. Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures: Appropriate protective gloves, goggles, appropriate clothing, or respirator.
- 6.1.1 For workers except for those intervening in emergency cases - instructions in case of accidental spill and leak of substance or mixture:
a) use of appropriate protection (including personal protective equipment according to part 8 BL), in order to avoid any skin, eyes or personal clothing contamination;
b) removing possible sources of ignition, providing proper ventilation, control of dust - not relevant
c) emergency measures, for example necessary evacuation from dangerous area or consultation with an expert - not relevant
- 6.1.2 For workers intervening in emergency cases - instructions for appropriate materials of personal protective suits (see part 8 BL)
- 6.2 Environmental precautions: Prevent environmental pollution - leakage into drains, surface water, groundwater or soil.
- 6.3 Methods and materials for limitation of leaks and for cleaning:
- 6.3.1 Instructions for leak limitation of spilled substance or mixture
a) enclose the spilled mixture, cover the canalization;
b) seal the damaged package
- 6.3.2 Instructions for removal of spilled substance or mixture
Absorb with appropriate agent, hand over to authorized person for disposal.
- 6.4 Reference to other sections: See also section 7., 8 and 13.

7. Section 7: Handling and storage

- 7.1 Measures for safe manipulation:
- 7.1.1 Recommendations:
a) Workers handling the product have to get familiar with health and safety rules for work and have to obey these rules. Secure escape routes (enclosing of leaked mixture, sealing of damaged packages and so on), for fire prevention (remove ignition sources, non-sparkling tools and so on) and limit the production of aerosol and dust.
b) Obey measures for prevention of manipulation with incompatible substances or mixtures (see part 10) in common areas.
c) Store in original closed packages in temperature from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources.
d) Prevent the contamination of environment, i.e. leak into canalization, surface or underground water and soil.
- 7.1.2 Instructions for general hygiene of work:
a) Do not eat, drink or smoke on work areas.
b) After working with product wash your hands with soap and water, eventually use regeneration hand cream.
c) Before entering dining areas, remove contaminated clothing and protective equipment.
- 7.2 Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated storages in original closed packages in temperatures from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources. Prevent any contact with oxidizing substances, strong acids and bases. Do not store with food, drinks and feed. The product is not a flammable liquid according to ČSN 65 0201.
- 7.3 Specific end use: see part 1.2; coating procedure and recommendations are listed in technical list of the product, or in other product documentation.

8. Section 8: Exposure controls / personal protection

8.1 Control parameters:

Exposure limits EH40/2005 (WELs):

Chemical name:

2-butoxyethanol

2-(2-butoxyethoxy)ethanol

CAS:

111-76-2

112-34-5

Long-term exposure limit [mg/m³] (TWA/8 h)

123 (25 ppm)

67,5 (10 ppm)

Short-term exposure limit [mg/m³] (15 minut)

246 (50 ppm)

101,2 (15 ppm)

Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Not Assigned

Trizinc bis(orthophosphate) (ES: 231-944-3)

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure) 5 mg/m³

DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure) 83 mg/kg bw/day

NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	2,5 mg/m ³
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	0,83 mg/kg bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	0,83 mg/kg bw/day
PNEC aqua (freshwater)	20,6 µg/L
PNEC aqua (marine water)	6,1 µg/L
PNEC STP	100 µg/L
PNEC sediment (freshwater)	117,8 mg/kg sediment dw
PNEC sediment (marine water)	56,5 mg/kg sediment dw
PNEC soil	35,6 mg/kg soil dw

Zinc oxide [ES: 215-222-5]:

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	5 mg/m ³
NOAEC (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	5 mg/m ³
DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure)	0,5 mg/m ³
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	2,5 mg/m ³
NOAEC (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	2,5 mg/m ³
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	0,83 mg/kg bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	0,83 mg/kg bw/day
PNEC aqua (freshwater)	20,6 µg/L
PNEC aqua (marine water)	6,1 µg/L
PNEC STP	100 µg/L
PNEC sediment (freshwater)	117,8 mg/kg sediment dw
PNEC sediment (marine water)	56,5 mg/kg sediment dw
PNEC soil	35,6 mg/kg soil dw

2-butoxyethanol (ES: 203-905-0):

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	98 mg/m ³
DNEL (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	1091 mg/m ³
DNEL (Workers, Hazard via inhalation route, Local effects, Long term exposure)	246 mg/m ³ (respiratory tract)
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	125 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	150 mg/kg bw/day
DNEL (Workers, Hazard via dermal route, Systemic effects, Acute/short term exposure)	89 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	59 mg/m ³
DNEL (General Population, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	426 mg/m ³
DNEL (General Population, Hazard via inhalation route, Local effects, Long term exposure)	147 mg/m ³ (respiratory tract)
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	75 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	150 mg/kg bw/day

DNEL (General Population, Hazard via dermal route, Systemic effects, Acute/short term exposure)	89 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	6,3 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Acute/short term exposure)	26,7 mg/kg bw/day
PNEC aqua (freshwater)	8,8 mg/L
PNEC aqua (marine water)	0,88 mg/L
PNEC STP	463 mg/L
PNEC sediment (freshwater)	34,6 mg/kg sediment dw
PNEC sediment (marine water)	3,46 mg/kg sediment dw
PNEC soil	2,33 mg/kg soil dw
PNEC oral (Hazard for predators)	0,02 g/kg food

2-(2-butoxyethoxy) ethanol [ES: 203-961-6]:

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	67,5 mg/m ³
DNEL (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	101,2 mg/m ³
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	83 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	2000 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	40,5 mg/m ³
DNEL (General Population, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	60,7 mg/m ³
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	50 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	2000 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	5 mg/kg bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	200 mg/kg bw/day
PNEC aqua (freshwater)	1,1 mg/L
PNEC aqua (marine water)	0,11 mg/L
PNEC STP	200 mg/L
PNEC sediment (freshwater)	4,4 mg/kg sediment dw
PNEC sediment (marine water)	0,44 mg/kg sediment dw
PNEC soil	0,32 mg/kg soil dw
PNEC oral (Hazard for predators)	56 mg/kg food

2,4,7,9-tetramethyldec-5-yne-4,7-diol [ES: 204-809-1]:

DNEL (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	1,76 mg/m ³
NOAEC (Workers, Hazard via inhalation route, Systemic effects, Long term exposure)	132 mg/m ³
DNEL (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	5,28 mg/m ³
NOAEC (Workers, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	132 mg/m ³
DNEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	0,5 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Long term exposure)	150 mg/kg bw/day
DNEL (Workers, Hazard via dermal route, Systemic effects, Acute/short term exposure)	1,5 mg/kg bw/day
NOAEL (Workers, Hazard via dermal route, Systemic effects, Acute/short term exposure)	150 mg/kg bw/day
DNEL (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	0,43 mg/m ³
NOAEC (General Population, Hazard via inhalation route, Systemic effects, Long term exposure)	150 mg/m ³
DNEL (General Population, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	1,29 mg/m ³
NOAEC (General Population, Hazard via inhalation route, Systemic effects, Acute/short term exposure)	150 mg/m ³
DNEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	0,25 mg/kg bw/day

NOAEL (General Population, Hazard via dermal route, Systemic effects, Long term exposure)	150 mg/kg bw/day
DNEL (General Population, Hazard via dermal route, Systemic effects, Acute/short term exposure)	0,75 mg/kg bw/day
NOAEL (General Population, Hazard via dermal route, Systemic effects, Acute/short term exposure)	150 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Long term exposure)	0,25 mg/kg bw/day
DNEL (General Population, Hazard via oral route, Systemic effects, Acute/short term exposure)	0,75 mg/kg bw/day
NOAEL (General Population, Hazard via oral route, Systemic effects, Acute/short term exposure)	150 mg/kg bw/day
PNEC aqua (freshwater)	0,04 mg/L
PNEC aqua (marine water)	0,004 mg/L
PNEC STP	7 mg/L
PNEC sediment (freshwater)	0,32 mg/kg sediment dw
PNEC sediment (marine water)	0,032 mg/kg sediment dw
PNEC soil	0,028 mg/kg soil dw

8.2 Exposure controls

Ensure adequate ventilation. Ensure protective equipment is worn while working with the product. Contaminated work clothes can be reused after thorough cleaning. Wash your hands and face with soap and water after use. Do not eat, drink or smoke while working with the product.

8.2.1 Appropriate engineering controls: Observe the usual precautions to protect the health and well-ventilated.

8.2.2 Individual protection measures, such as personal protective equipment:

Occupational exposure is governed by Directive 89/686/EEC therefore any use of personal protective equipment must be in accordance with this Regulation.

a) Eyes and face protection: Suitable safety goggles (EN 166), face shield.

b) Skin protection: Common safety clothing with long sleeve and shoes; take of the contaminated clothing and wash your skin with soap and water.

b-1) Hands protection: suitable protective gloves (made from rubber - according to EN 374), wash your hands with soap and water after work,

c) Airways protection: with proper area ventilation not required. When spraying, face half-shielded is recommended for gass filtration (EN 405) or quarter-shielded with gass filter (EN 140, EN 141).

d) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for protection against materials, which are considered to be heat hazard. Not relevant for this product.

8.2.3 Environmental exposure controls: Avoid infiltration of surface and groundwater and soil.

9. Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) State	viscous liquid
b) Color	color shown on the cover
c) Odour:	characteristic
Odor threshold:	Not specified
d) Melting/Freezing point (temperature range) (°C):	approximately 0
e) Boiling point or initial boiling point and boiling range (°C)	approximately 100
f) Combustibility:	non-flammable liquid
g) Explosion limits: upper limit (% volume):	Not specified
lower limit (% volume):	Not specified
h) Point of ignition:	Not specified
i) Temperature of self-ignition:	Not specified
j) Temperature of decomposition (°C):	Not specified
k) pH (23 °C)	7,0 - 9,0
l) Kinematic viscosity:	Not specified
m) Solubility (23 °C)	
- with water:	unlimited miscibility
- with fats:	Not specified
n) Partition coefficient n - octanol/water:	Not specified
o) Steam pressure (20 °C):	2,3 kPa (20 °C)
p) Density and/or relative density (20 °C):	approximately 1,10 g.cm ⁻³
q) Relative viscosity of steam (at °C):	Not specified
r) Particles characteristics:	Not specified

9.2 Other information:

9.2.1 Information about class of physical hazard: is not relevant

9.2.2 Other safety characteristics

Evaporation rate:	Not specified
Dynamic viscosity:	Not specified
Explosive properties:	Not specified

Oxidizing properties:
VOC (g/L)

Not specified
14

10. Section 10: Stability and reactivity

Product is stable under recommended storage and handling conditions.

10.1 Reactivity: Product is not reactive under recommended storage and handling conditions.

10.2 Chemical stability: Product is stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions: In case of contact with substances reacting dangerously with water.

10.4 Conditions to avoid: Temperatures below 0 °C and above 100 °C cause degradation of the product. Temperatures above recommended storage temperature reduce life of the product.

10.5 Incompatible materials: Substances reacting with water.

10.6 Hazardous Decomposition Products: Carbon monoxide may form during burning.

11. Section 11: Toxicological information

11.1 Information about hazard classes according to (ES) č. 1272/2008

a) acute toxicity:

- LD₅₀, oral, rat (mg.kg⁻¹):

- LD₅₀, dermal, rat or rabbit (mg.kg⁻¹):

- LC₅₀, inhalation, rat, for aerosols or particles (mg.kg⁻¹):

- LC₅₀, inhalation, rat, for gases and vapours (mg.kg⁻¹):

b) corrosivity/skin irritation:

c) serious eye damage / eyes irritation:

d) sensitivity of airways / sensitivity of skin:

e) germ cells mutagenicity:

f) carcinogenicity:

g) toxicity for reproduction:

h) toxicity for specific organs - single exposure:

i) toxicity for specific organs - multiple exposures:

j) hazards while inhaled:

Human experience:

Tests on animals:

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

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the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

the classification criteria are not met based on available information

No detrimental effects were found upon compliance with the prescribed safety measures.

Were not performed

11.1.1 Information for each hazard class or breakdown:

see above

11.1.2 Toxicological properties of mixture

not available

zinc phosphate (ES: 231-944-3), 2- (2-butoxyethoxy) ethanol (ES: 203-961-6), 2-butoxyethanol (ES: 203-905-0), 2,4,7,9 -tetramethyldec-5-yne-4,7-diol (ES: 204-809-1) and zinc oxide (ES: 215-222-5)

see part 8

11.1.3 If enough information from substance/mixture trials exist, it might be necessary to sum up results of used studies, for example according to exposure run

not relevant

11.1.4 If the classification criteria are not met for specific hazard class, information explaining the justification should be stated.

relevant concentration limits were not exceeded

11.1.5 Information about likely exposure run

no effects on human health are known

11.1.6 Symptoms corresponding to physical, chemical and toxicological features

no effects on human health are known

11.1.7 Belated and immediate effects and chronic effects of short/long term exposure

no effects on human health are known

11.1.8 Interactive effects

unknown

11.1.9 Lack of specific data

not relevant

11.1.10 Mixtures

see part 8

11.1.11 Mixtures information compared to substance information

1) Substances in the mixture can react with each other inside of a body and can cause different levels of absorption, metabolism and secretion.

2) It is necessary to consider, if concentration of each substance is sufficient to contribute to mixture's effects on health. For each substance

a) if the information are doubled, they are listed only once for a substance as a whole, for example when two different substances are causing vomiting and diarrhea;

Not relevant for this mixture.

b) if it is not likely the effects will appear with current concentrations, for example when weak irritating substance is dissolved in non-irritating solution to a level under certain concentration;

Not relevant for this mixture.

c) if the information about mutual effects of substances in the mixture are unavailable, no assumptions will be listed and instead effects on health of each substance will be listed.

see part 8

11.1.12 Other information

None

11.2 Other hazards information

11.2.1 Features causing disruption of endocrinal systém

Not relevant for this mixture.

11.2.2 Additional data:

None

12. Section 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity for water organisms:

Mixture

- LC₅₀, 96 hours, fish (mg/kg):

Not set

- LC₅₀, 48 hours, fish (mg/kg):

Not set

- IC₅₀, 72 hours, algae (mg/kg):

Not set

12.2 Persistence and degradability:

Not set

12.3 Bioaccumulative potential:

Not set

12.4 Mobility in soil:

It was not determined, the blend is miscible with water.

12.5 Results of PBT and vPvB

The mixture does not meet the criteria for classification as PBT or vPvB.

12.6 Features causing disruption of endocrinal systém

Unknown for this mixture

12.7 Other adverse effects:

See Section 2

Additional data:

Details on the toxicity of hazardous components are given below.

Toxicity Data for Hazardous components

Component	trizinc bis (orthophosphate)	Zinc oxide
CAS number	7779-90-0	1314-13-2
Toxicity to algae	NOEC = 60 µg/L (72 h)	EC ₁₀ = 84 µg/L (72 h) NOEC = 4,9 µg/L (72 h)
Toxicity to fish	LC ₅₀ = 166 µg/L (96 h)	LC ₅₀ = 439 µg/L (96 h)
Toxicity to water fleas	LC ₅₀ = 1220 µg/L (48 h) EC ₅₀ = 860 mg/L (48 h)	LC ₅₀ = 1220 µg/L (48 h) EC ₅₀ = 860 mg/L (48 h)

13. Section 13: Disposal considerations

13.1 Methods of waste management:

a) Appropriate methods of substance, mixture and contaminated packaging disposal: Product remnants and packaging with product remnants must be incinerated in a hazardous waste incinerator or kept at a hazardous waste landfill.

b) Physical / chemical properties that can affect means of waste handling: Liquid mixture is completely miscible with water.

c) Avoidance of disposal through sewer: It is necessary to prevent leakage of both components and hardened mixture into drains.

d) Special precautions for the recommended waste management: Avoid contact with skin and eyes.

14. Section 14: Transport information

14.1 UN number or ID number

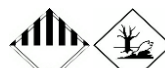
UN3082

Required shipping label:

ADR/RID/ADN:



IMDG:



Various; MARINE POLLUTANT
EMS group: F-A,S-F

ICAO TI:



14.2 Proper name of the United Nations for the shipment

Ground transport ADR/RID/ADN:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TRIZINC BIS [ORTHOPHOSPHATE] AND ZINC OXIDE)

Naval transport IMDG:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TRIZINC BIS [ORTHOPHOSPHATE] AND ZINC OXIDE)

Air transport ICAO TI:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(TRIZINC BIS [ORTHOPHOSPHATE] AND ZINC OXIDE)

14.3 Transport hazard class(es):

ADR/RID/ADN:

9

IMDG:

9

ICAO TI:

9

14.4 Packing group:

ADR/RID/ADN:

III

IMDG:

III

ICAO TI:

III

14.5 Environmental hazards:

It is not intended to be transported in containers by inland waterways. This material presents a risk to the environment under the criteria of the Model UN regulation of hazardous products and / or pollutants according to the IMDG Code.

14.6	Special precautions for user:	See Section 8
	Special provisions (ADR):	274: The provisions of subsection 3.1.2.8 apply (ADR). Symbol (fish and tree)
14.7	Naval mass-transport according to instrument IMO:	Not applicable
	Notes:	None
	Additional data:	None

15. Section 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture. Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals establishing a European Chemicals Agency, as amended Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) as amended Commission directive (EU) No. 878/2020 EH40/2005 Workplace exposure limits (second edition, published 2011). Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended)	
15.2	Assessment chemical safety of mixture:	Were not performed

16. Section 16: Other informations

Information stated in this safety data sheet is based on the current knowledge of EU legislation. It is recommendation in terms of health and safety as well as recommendation related to ecological matters that are essential to safe usage of the product.

a) New edition.

b) key or legend for abbreviations and acronyms used in the safety data sheet:

LD ₅₀	The lethal dose for 50 % mortality of the test population relative to a control sample.
LC ₅₀	Lethal concentration for 50 % mortality of the test population relative to a control sample.
EC ₅₀	Effective concentration for 50 % mortality of the test population relative to a control sample.
EC ₁₀	Effective concentration for 10 % mortality of the test population relative to a control sample.
IC ₅₀	Inhibitory concentration to reduce the growth or growth rate of 50% of the test population relative to a control sample.
LL ₅₀	Lethal loading doses of test substance resulting in 50% mortality
EL ₅₀	Effective loading doses of test substance resulting in 50% mortality
PBT	Persistent, bioaccumulative and toxic substances.
vPvB	Very persistent and very bioaccumulative substances.
DNEL	Derived No Effect Level - derived concentration of the substance without adverse effects
DMEL	Derived Minimum Effect Level - derived minimum level at which the adverse effects
NOAEL	No Observed Adverse Effect Level - no negative effect was observed
PNEC	Predicted No Effect Concentration - an estimate of the concentration of the substance without adverse effects
NOELR	No Observed Effect Loading Rate - dosage rate without observed effect
NOEC	No Observed Effect Concentration - concentration without observed effect
NOEL	No Observed Effect Level - level without observed effect
LOEC	Lowest Observed Effect Concentration - lowest concentrations with observable effects
ADR	European Agreement concerning the international carriage of dangerous goods by road.
RID	Regulations concerning the international carriage of dangerous goods by rail.
IMDG	International maritime code of dangerous goods.
ICAO	The International Civil Aviation Organization.
IATA	International Air Transport Association.
GHS	Globally Harmonized System of Classification and Labelling of Chemical substances.

c) important references to literature and data sources

Initial data sources are safety data sheets of the inherent (components).

d) in case of mixture, statement about evaluation method used for classification according to article 9 of directive (ES) number 1272/2008

For evaluation purposes, principles of extrapolation were used. Calculation methods.

e) List of H-sentences, whose full form is not listed in other parts.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Guidelines for training:

As required by national legislation.

Recommended restrictions on use (i. e. non-statutory recommendations by supplier):

Product should not be used for other purposes than specified (see section 1.2). Because specific conditions of use are beyond supplier's control it is responsibility of the user to adapt notifications to local law and regulations. Safety information describe the product with regard to safety and can not be considered technical information about the product.