Safety Data Sheet
V-8959A

Safety Data Sheet dated 19/1/2023, version 2

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

1.1. Product identifier

Mixture identification:

Trade name: V-8959A

Trade code: MIL2208

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

HIGH SOLID EPOXY ANTICORROSIVE PRIMER

1.3. Details of the supplier of the safety data sheet

Company:

N.V.S.C. Srl

VIA S. MARTINO, 6 - 15028 QUATTORDIO (AL) - ITALIA TEL. +39-0131-773403

Competent person responsible for the safety data sheet:

g.venezia@nvsc.it

1.4. Emergency telephone number

National Poison Information Service (NPIS) – Birmingham (UK) –director.birmingham.unit@npis.org

Croatian Insitute for Toxicology and Antidoping – Zagreb (HR) –+385 01 46 41 368

Centro de Informacao Antivenenos Instituto nacional de Emergencia Medica Lisboa (P)- +351 213 303 271

Norwegian Environment Agency – Trondheim (N) - +47 73 58 05 00 Bloemfontein Poison Control and Medicine

Information Centre – Bloemfontein (ZA) - +27 824 910 160

Israel Poison Information Centre – Haifa (IL) - +97 248 541 900

Swiss Toxicogical Information Centre – Zurich (CH) - +41 44 251 51 51

Ryadh Poison Control Center – Riyadh (SA) - +966 111 232 41 89 –pcc-riyadh@moh.gov.sa

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Danger, Flam. Liq. 2, Highly flammable liquid and vapour.

Warning, Eye Irrit. 2, Causes serious eye irritation.

Warning, Skin Sens. 1, May cause an allergic skin reaction.

Warning, STOT SE 3, May cause drowsiness or dizziness.

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P370+P378 In case of fire: Use ... to extinguish.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane
2-methoxy-1-methylethyl acetate
methyl acetate
1-methoxy-2-propanol; monopropylene glycol methyl ether

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number		Classification
>= 12.5% - < 15%	methyl acetate	Index number: CAS:	607-021-00-X 79-20-9	2.6/2 Flam. Liq. 2 H225 3.8/3 STOT SE 3 H336

		EC: REACH No.:	201-185-2 01-2119459211-47	3.3/2 Eye Irrit. 2 H319 EUH066 Specific Concentration Limits: C >= 10%: EUH066 C >= 10%: Eye Irrit. 2 H319 C >= 20%: STOT SE 3 H336
>= 5% - < 7%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: CAS: EC: REACH No.:	603-064-00-3 107-98-2 203-539-1 01-2119457435-35	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336 Specific Concentration Limits: C >= 20%: STOT SE 3 H336
>= 3% - < 5%	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Index number: CAS: EC: REACH No.:	603-074-00-8 25068-38-6 500-033-5 01-2119456619-26	3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 3.3/2 Eye Irrit. 2 H319 4.1/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C >= 5%: Skin Irrit. 2 H315 C >= 1%: Skin Sens. 1 H317 C >= 5%: Eye Irrit. 2 H319 C >= 25%: Aquatic Chronic 2 H411 2,5% <= C < 25%: Aquatic Chronic 3 H412 C >= 25%: Aquatic Chronic 4 H413
>= 3% - < 5%	trizinc bis(orthophosphate)	Index number: CAS: EC: REACH No.:	030-011-00-6 7779-90-0 231-944-3 01-2119485044-40	4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410 Specific Concentration Limits: C >= 25%: Aquatic Acute 1 H400 C >= 25%: Aquatic Chronic 1 H410 2,5% <= C < 25%: Aquatic Chronic 2 H411 0,25% <= C < 2.5%: Aquatic Chronic 3 H412 C >= 25%: Aquatic Chronic 4 H413
>= 2.5% - < 3%	2-methoxy-1-methylethyl acetate	Index number: CAS: EC: REACH No.:	607-195-00-7 108-65-6 203-603-9 01-2119475791-29	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336

>= 0.1% - < 0.25%	zinc oxide	Index number: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 REACH No.: 01-2119463881-32	4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410 Specific Concentration Limits: C >= 25%: Aquatic Acute 1 H400 C >= 25%: Aquatic Chronic 1 H410 2,5% <= C < 25%: Aquatic Chronic 2 H411 0,25% <= C < 2.5%: Aquatic Chronic 3 H412 C >= 25%: Aquatic Chronic 4 H413

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediatley and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
In case of fire: Use ... to extinguish.

Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products:

5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non emergency personnel:
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.
For emergency responders:
Wear personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
Wash with plenty of water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Packaging materials:

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl acetate - CAS: 79-20-9

- OEL Type: EPY_TLV-ACGIH - TWA: 606 mg/m3, 200 ppm - STEL: 757 mg/m3, 250 ppm
- OEL Type: EPY_TLV - TWA: 200 mg/m3 - STEL: 500 mg/m3
- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Headache, dizziness, nausea, eye dam (degeneration of ganglion cells in the retina)

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

- OEL Type: EPY_OEL - TWA: 375 mg/m3, 100 ppm - STEL: 568 mg/m3, 150 ppm
- OEL Type: EPY_TLV-ACGIH - TWA: 369 mg/m3, 100 ppm - STEL: 553 mg/m3, 150 ppm
- OEL Type: EU - TWA(8h): 375 mg/m3, 100 ppm - STEL: 563 mg/m3, 150 ppm - Notes: Skin
- OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

- OEL Type: EPY_OEL - TWA: 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm
- OEL Type: EU - TWA(8h): 275 mg/m3, 50 ppm - STEL: 550 mg/m3, 100 ppm - Notes: Skin

zinc oxide - CAS: 1314-13-2

- OEL Type: EPY_TLV-ACGIH - TWA: 2 mg/m3 - STEL: 10 mg/m3
- OEL Type: EPY_TLV - TWA: 3 mg/m3 - STEL: 5 mg/m3
- OEL Type: ACGIH - TWA(8h): 2 mg/m3 - STEL: 10 mg/m3 - Notes: (R) - Metal fume fever

DNEL Exposure Limit Values

methyl acetate - CAS: 79-20-9

Consumer: 44 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 131 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 610 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 44 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 88 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Consumer: 33 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 43.9 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 553.5 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 369 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 78 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 183 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane - CAS: 25068-38-6

Worker Professional: 8.3 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Professional: 12.3 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 8.3 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 12.3 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 3.6 03 - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: .75 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: .75 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 3.6 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: .75 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: .75 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Professional: 153.5 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 275 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 54.8 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 33 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

zinc oxide - CAS: 1314-13-2

Consumer: .83 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 2.5 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 83 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 83 06 - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

methyl acetate - CAS: 79-20-9

Target: Fresh Water - Value: 12 mg/l
Target: Marine water - Value: 12 mg/l
Target: Freshwater sediments - Value: 128 mg/kg
Target: Marine water sediments - Value: 128 mg/kg

Target: 10 - Value: 12 mg/l
Target: Microorganisms in sewage treatments - Value: 600 mg/l
Target: EPY_CAT-ALIM - Value: 204 mg/kg
Target: 09 - Value: 416 mg/kg

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Freshwater sediments - Value: 52.3 mg/kg
Target: Marine water sediments - Value: 5.2 mg/kg
Target: 10 - Value: 100 mg/l
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: 09 - Value: 4.59 mg/kg

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane - CAS: 25068-38-6
Target: Fresh Water - Value: 0.003 mg/l
Target: Marine water - Value: 0.0003 mg/l
Target: Microorganisms in sewage treatments - Value: 10 mg/l
Target: Freshwater sediments - Value: 0.5 04
Target: Marine water sediments - Value: 0.5 04
Target: 10 - Value: 0.013 mg/l
Target: 09 - Value: 0.05 04

trizinc bis(orthophosphate) - CAS: 7779-90-0
Target: Fresh Water - Value: 0.206 mg/l
Target: Marine water - Value: 0.061 mg/l
Target: Freshwater sediments - Value: 2356 mg/kg
Target: Marine water sediments - Value: 113 mg/kg
Target: Microorganisms in sewage treatments - Value: 52 mg/l
Target: 09 - Value: 1068 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Fresh Water - Value: 0.635 mg/l
Target: Marine water - Value: 0.0635 mg/l
Target: 09 - Value: 0.29 mg/kg
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l

zinc oxide - CAS: 1314-13-2
Target: Fresh Water - Value: 0.0206 mg/l
Target: Marine water - Value: 0.0061 mg/l
Target: Freshwater sediments - Value: 117.8 mg/kg
Target: Marine water sediments - Value: 56.5 mg/kg
Target: 09 - Value: 35.6 mg/kg

8.2. Exposure controls

Eye protection:
Use close fitting safety goggles, don't use eye lens.

Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:
Use adequate protective respiratory equipment.

Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Beige	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	114°C	--	--
Flammability:	Flam. Liq. 2, H225	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	13 ° C	--	--
Auto-ignition temperature:	330°C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm2/sec (40 °C)	--	--
Solubility in water:	INSOL	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.55 g/ml	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	No	--	--
Viscosity:	>20.5 mm^2/s 40°C	--	--
Oxidizing properties:	No	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
V-8959A
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1 H317
e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
h) STOT-single exposure
The product is classified: STOT SE 3 H336
i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
Toxicological information of the main substances found in the product:
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
a) acute toxicity:
Test: LD50 - Route: EPY_DERMAL 13000 - Notes: Rabbit

Test: LC50 - Route: EPY_INHALATION 54.6 - Notes: Rat
Test: LD50 - Route: EPY_ORAL 5300 - Notes: Rat
trizinc bis(orthophosphate) - CAS: 7779-90-0
a) acute toxicity:
Test: LC50 - Route: EPY_INHALATION EPY_> 5.7 - Notes: Rat
Test: LD50 - Route: EPY_ORAL EPY_> 5000 - Notes: Rat - Wistar
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) acute toxicity:
Test: LD50 - Route: EPY_DERMAL EPY_> 5000 - Notes: Rat
Test: LD50 - Route: EPY_ORAL 8530 - Notes: Rat

Liquid epoxy resin contained in this material causes only minor skin irritation. However, all epoxy resins are capable of causing sensitizing of the skin. Susceptibility to skin irritation and sensitization varies from person to person.
In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact. Therefore, even though the skin irritation potential is slight, skin contact should be avoided.
Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.
11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity
Adopt good working practices, so that the product is not released into the environment.
V-8959A
The product is classified: Aquatic Chronic 2 - H411
trizinc bis(orthophosphate) - CAS: 7779-90-0
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia 0.86 - Notes: Daphnia magna
Endpoint: LC50 - Species: Fish 0.78 - Notes: Pimephales promelas
zinc oxide - CAS: 1314-13-2
a) Aquatic acute toxicity:
Endpoint: EPY_BCF EPY_> 175
Endpoint: EPY_BIO 0
Endpoint: EC50 - Species: Daphnia 1.7 - Duration h: 48h - Notes: Daphnia magna
Endpoint: EPY_IC50 - Species: Algae 0.14 - Duration h: 72h
Endpoint: LC50 - Species: Fish 1.1 - Duration h: 96h - Notes: Oncorhynchus mykiss
Endpoint: NOEC - Species: Algae 0.024
Endpoint: NOEC - Species: Fish 0.53
Endpoint: EPY_SOL 2.9
12.2. Persistence and degradability
N.A.
12.3. Bioaccumulative potential
N.A.
12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

ADR-UN Number:	1263
ADR/RID/ADN-UN Number:	1263
ADR/RID-UN Number:	1263
ADR/ADN-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

14.2. UN proper shipping name

ADR-Shipping Name:	PAINT
ADR/RID-Shipping Name:	PAINT
ADR/ADN-Shipping Name:	PAINT
ADR/RID/ADN-Shipping Name:	PAINT
IATA-Shipping Name:	PAINT
IMDG-Shipping Name:	PAINT

14.3. Transport hazard class(es)

ADR-Class:	3
ADR/RID-Class:	3
ADR/ADN-Class:	3
ADR/RID/ADN-Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3

14.4. Packing group

ADR-Packing Group:	II
ADR/RID-Packing Group:	II
ADR/ADN-Packing Group:	II
ADR/RID/ADN-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II

14.5. Environmental hazards

ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
Most important toxic component:trizinc bis(orthophosphate)
IMDG-EmS: F-E , S-E

14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 163 367 640C 650
ADR-Transport category (Tunnel restriction code): 2 (D/E)
IATA-Passenger Aircraft: 353
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 364
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category B
IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:
Restriction 3
Restriction 40

Restrictions related to the substances contained:

Restriction 75
Volatile Organic compounds - VOCs = 0.00 g/l
Volatile CMR substances = 0.00 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %
Organic Carbon - C = 0.00
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
Product belongs to category: P5c, E2

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
EUH066 Repeated exposure may cause skin dryness or cracking.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3
Aquatic Chronic 4	4.1/C4	Chronic (long term) aquatic hazard, category 4

This safety data sheet has been completely updated in compliance to Regulation 2020/878.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	**Classification procedure**
Flam. Liq. 2, H225	On basis of test data
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.

LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.