

Vivido Ferro-Mattlack

Version number: 15.0

Revision: 09.04.2026
Date of issue: 09.04.2026:

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

1.1 Product identifier

Trade name **Vivido Ferro-Mattlack** **4508a:**
black
Product number 4508100552

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

Relevant identified uses Coating material for commercial or consumer end-uses.
Uses advised against Any use not listed above.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG
Bergwerkstraße 22
A-6130 Schwaz
Austria

Telephone: +4352426922713
e-mail: sdb-info@adler-lacke.com

Further information obtainable from: sdb-info@adler-lacke.com

Telephone
+43 5242 6922-713
Mon - Thu 07:00 - 16:25
Fri 07:00 - 12:15

1.4 Emergency telephone number

Country	Name	Telephone
Austria	Vergiftungsinformationszentrale (Poison Informations Center)	+43 1 406 43 43

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Hazard class	Category	Hazard class and category	Hazard statement
flammable liquid	3	Flam. Liq. 3	H226
specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word warning

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- Pictograms

GHS02, GHS07,
GHS09



- Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

- Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents, container in accordance with national regulations.

- Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains phthalic anhydride, Turpentine oil. May produce an allergic reaction.

- Hazardous ingredients for labelling

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, < 2% aromatics

2.3 Other hazards

Keep out of reach of children and do not empty into the drains. Dispose remainders properly (collection of hazardous waste, disposal companies). Empty containers must be entered into the recycling system. The usual safety precautions must be observed during processing of the product.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Alkyd resin with pigments and other additives in organic solvent.

Name of substance	Identifier	Wt%	Classification acc. to GHS
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, < 2% aromatics	CAS No 1174522-20-3 EC No 919-857-5 REACH Reg. No 01-2119463258-33-xxxx	25 – < 50	Flam. Liq. 3 / H226 STOT SE 3 / H336 Asp. Tox. 1 / H304
trizinc bis(orthophosphate)	CAS No 7779-90-0 EC No	3 – < 5	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410

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Name of substance	Identifier	Wt%	Classification acc. to GHS
	231-944-3 Index No 030-011-00-6 REACH Reg. No 01-2119485044-40-xxxx		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC No 918-481-9 REACH Reg. No 01-2119457273-39-xxxx	1 – < 3	Asp. Tox. 1 / H304
xylene, mixed isomers, pure	CAS No 1330-20-7 EC No 215-535-7 Index No 601-022-00-9 REACH Reg. No 01-2119488216-32-xxxx	1 – < 3	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304
zinc oxide	CAS No 1314-13-2 EC No 215-222-5 Index No 030-013-00-7 REACH Reg. No 01-2119463881-32-xxxx	0,3 – < 0,5	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410
1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, zinc salt	CAS No 24468-28-8 EC No 246-279-4 REACH Reg. No 01-2120768441-53-xxxx	0,1 – < 0,3	Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411
Turpentine oil	CAS No 8006-64-2 EC No 232-350-7 Index No 650-002-00-6 REACH Reg. No 01-2119502456-45-xxxx	0,1 – < 0,3	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411
phthalic anhydride	CAS No 85-44-9 EC No 201-607-5 Index No 607-009-00-4 REACH Reg. No 01-2119457017-41-xxxx	0,1 – < 0,3	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335

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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
xylene, mixed isomers, pure	-	-	1.100 mg/kg 11 mg/l/4h	dermal inhalation: vapour
Turpentine oil	-	-	500 mg/kg 1.100 mg/kg 13,7 mg/l/4h	oral dermal inhalation: vapour
phthalic anhydride	-	-	1.530 mg/kg	oral

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Take off contaminated clothing. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not use any solvents or thinners!

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Keep at rest. IF SWALLOWED: Immediately call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), BC-powder, Water spray, Alcohol resistant foam, Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Thick smoke may occur in case of a fire. Inhaling the decomposed products may cause serious damage to health. The formation of explosive dust-air-mixtures is possible. Upon contact with air, the vapours may form an explosive mixture. . Combustible.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Fill contaminated material in the original container or any other suitable one and dispose it in accordance with point 13.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool.

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Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Protect from sunlight.

Control of effects

Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. . Close the open container carefully and keep it straight to prevent leakage.
Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
AT	Kohlenwasserstoffe, C10-C13, n-Alkane, Isoalkane, ringförmige Verbindungen, < 2% Aromaten		MAK				1.200				
AT	zinc oxide	1314-13-2	MAK		5					r, fume	GKV
AT	xylene, mixture of isomers	1330-20-7	MAK	50	221	100	442				GKV
AT	talc	14807-96-6	MAK		2					r, no_asb	GKV
AT	hydrocarbon vapours (aromatic content < 1%, n-hexane < 5%, cyclo-/iso-hexanes <25%)	64742-48-9	MAK	200		400 (30 min)					GKV
AT	turpentine, oil	8006-64-2	MAK	100	560			100	560	H	GKV
AT	phthalic anhydride	85-44-9	MAK		1				2 (5 min)	i	GKV
EU	xylene	1330-20-7	IOEL V	50	221	100	442			pure, H	2000/39/EC

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
fume as fume

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Notation

H	absorbed through the skin
i	inhalable fraction
no_asb	containing no asbestos fibres
pure	pure substance
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
AT	xylene	methylhippuric acids		BGW	1,5 g/l	VGÜ
AT	xylene	xylene		BGW	1 mg/l	VGÜ

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
trizinc bis(orthophosphate)	7779-90-0	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
trizinc bis(orthophosphate)	7779-90-0	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
xylene, mixed isomers, pure	1330-20-7	DNEL	221 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
xylene, mixed isomers, pure	1330-20-7	DNEL	442 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene, mixed isomers, pure	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
phthalic anhydride	85-44-9	DNEL	32,2 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
phthalic anhydride	85-44-9	DNEL	10 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
trizinc bis(orthophosphate)	7779-90-0	PNEC	20,6 µg/l	aquatic organisms	freshwater	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	6,1 µg/l	aquatic organisms	marine water	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	100 µg/l	aquatic organisms	sewage treatment	short-term

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
phosphate)				isms	ment plant (STP)	(single instance)
trizinc bis(ortho-phosphate)	7779-90-0	PNEC	117,8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
trizinc bis(ortho-phosphate)	7779-90-0	PNEC	56,5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
trizinc bis(ortho-phosphate)	7779-90-0	PNEC	35,6 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	0,327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	0,327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	6,58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	12,46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	12,46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene, mixed isomers, pure	1330-20-7	PNEC	2,31 mg/kg	terrestrial organisms	soil	short-term (single instance)
zinc oxide	1314-13-2	PNEC	20,6 µg/l	aquatic organisms	freshwater	short-term (single instance)
zinc oxide	1314-13-2	PNEC	6,1 µg/l	aquatic organisms	marine water	short-term (single instance)
zinc oxide	1314-13-2	PNEC	100 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
zinc oxide	1314-13-2	PNEC	117,8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
zinc oxide	1314-13-2	PNEC	56,5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
zinc oxide	1314-13-2	PNEC	35,6 mg/kg	terrestrial organisms	soil	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	1 mg/l	aquatic organisms	freshwater	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	0,1 mg/l	aquatic organisms	marine water	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	3,8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	0,38 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
phthalic anhydride	85-44-9	PNEC	0,173 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

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Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use protective gloves made of nitrile rubber as spray protection for short-term work. Material strength: 0.2mm, penetration time ≥ 480 min

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. Combination filtering device (EN 141). Particulate filter device (EN 143). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	black
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	139,1 °C at 1.013 hPa
Flammability	flammable liquid in accordance with GHS criteria

Lower and upper explosion limit

Lower explosion limit (LEL)	0,6 vol%
Upper explosion limit (UEL)	7 vol%
Flash point	32 °C
Auto-ignition temperature	183 °C
pH (value)	not determined
Kinematic viscosity	115 – 130 ⁵ / _{DIN 4mm}

Solubility(ies)

Water solubility	not miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	0,207 PSI at 85 °F
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Density and/or relative density

Density	1,1 – 1,101 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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Other safety parameters

Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Heating may cause a fire.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
xylene, mixed isomers, pure	1330-20-7	dermal	1.100 mg/kg
xylene, mixed isomers, pure	1330-20-7	inhalation: vapour	11 mg/l/4h
Turpentine oil	8006-64-2	oral	500 mg/kg
Turpentine oil	8006-64-2	dermal	1.100 mg/kg
Turpentine oil	8006-64-2	inhalation: vapour	13,7 mg/l/4h
phthalic anhydride	85-44-9	oral	1.530 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Contains phthalic anhydride, Turpentine oil. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

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Aquatic toxicity (chronic) of components					
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
trizinc bis(orthophos- phate)	7779-90-0	LC50	330 µg/l	fish	95 h
trizinc bis(orthophos- phate)	7779-90-0	EC50	5,2 mg/l	microorganisms	3 h
xylene, mixed iso- mers, pure	1330-20-7	EL50	2,9 mg/l	aquatic invertebrates	21 d
xylene, mixed iso- mers, pure	1330-20-7	ErC50	4,36 mg/l	algae	73 h
xylene, mixed iso- mers, pure	1330-20-7	EC50	2,2 mg/l	algae	73 h
zinc oxide	1314-13-2	EC50	2,065 mg/l	fish	84 h
zinc oxide	1314-13-2	LC50	23,06 mg/l	fish	84 h
zinc oxide	1314-13-2	EbC50	6.813 µg/l	aquatic invertebrates	21 d
zinc oxide	1314-13-2	ErC50	0,65 mg/l	algae	4 d
1,3,5-Triazine- 2,4,6(1H,3H,5H)-tri- one, zinc salt	24468-28-8	LC50	330 µg/l	fish	95 h
1,3,5-Triazine- 2,4,6(1H,3H,5H)-tri- one, zinc salt	24468-28-8	EC50	5,2 mg/l	microorganisms	3 h
phthalic anhydride	85-44-9	LC50	560 mg/l	fish	7 d
phthalic anhydride	85-44-9	EC50	>1.000 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocar- bons, C9-C11, n-alkanes, iso- alkanes, cyclic compounds, < 2% aromatics	1174522-20-3	oxygen deple- tion	10 %	5 d		ECHA
Hydrocar- bons, C9-C11, n-alkanes, iso- alkanes, cyclic compounds, < 2% aromatics	1174522-20-3	carbon diox- ide genera- tion	0 %	3 d		ECHA
Hydrocar- bons, C10- C13, n-al- kanes, isoalkanes, cyclics, < 2% aromatics		oxygen deple- tion	10 %	5 d		ECHA
Hydrocar- bons, C10-		carbon diox- ide genera-	0 %	3 d		ECHA

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Degradability of components						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		tion				
xylene, mixed isomers, pure	1330-20-7	oxygen depletion	98 %	28 d		ECHA
phthalic anhydride	85-44-9	oxygen depletion	85,2 %	14 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes, Decision 2000/532/EC on the list of waste

- Product
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
- Product residues
15 01 10* packaging containing residues of or contaminated by hazardous substances
- Packagings
15 01 02 plastic packaging
15 01 04 metallic packaging

List of wastes (ÖNORM S 2100)

55502: Altlacke, Altfarben, soferne lösemittel- und/oder schwermetallhaltig, sowie nicht voll ausgehärtete Reste in Gebinden.

- Restentleerte Verpackungen (ja nach angeführtem Recyclingcode gemäß der Richtlinie 94/62/EG auf der Verpackung)

35105: Eisenmetallemballagen (Recyclingcode FE40).

57118: Kunststoffemballagen und -behälter (Recyclingcodes: PET01, PE-HD02, PE-LD04 oder PP05).

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Disposal methods:

Product

Waste production should be avoided or minimised if possible.

Do not empty into the drains. Avoid releasing the product into the environment. Waste, containers must be removed, disposed in a safe way.

Packagings

Waste production should be avoided or minimised if possible.

Packaging waste should be recycled. Burning or landfilling should only be considered if recycling is not feasible.

Notes on disposal:

Product

Disposal of this product and its dissolutions and by-products must be carried out in accordance with the environmental protection requirements and waste disposal laws as well as the requirements of the local authorities at all times. Excess must be handed over, disposed to a recognised waste disposal company (disposal company/recycling company).

Packagings

With the aid of the information provided in this safety data sheet, the responsible authorities must be consulted regarding classification of empty containers, packaging. Empty containers should be disposed, recycled according to type. Licenced containers, packaging can be disposed free of charge via system partners, where applicable. Containers with residual contents must be disposed in accordance with local and national legal provisions.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 1263
IMDG-Code	UN 1263
ICAO-TI	UN 1263

14.2 UN proper shipping name

ADR/RID/ADN	PAINT
IMDG-Code	PAINT
ICAO-TI	Paint

14.3 Transport hazard class(es)

ADR/RID/ADN	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	trizinc bis(orthophosphate)

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Classification code F1
Danger label(s) 3, fish and tree



Environmental hazards yes (hazardous to the aquatic environment)
Special provisions (SP) 163, 367, 650
Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Tunnel restriction code (TRC) D/E
Hazard identification No 30

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant yes (hazardous to the aquatic environment)
Danger label(s) 3, fish and tree



Special provisions (SP) 163, 223, 367, 955
Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-E, S-E
Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards yes (hazardous to the aquatic environment)
Danger label(s) 3



Special provisions (SP) A3, A72, A192
Excepted quantities (EQ) E1
Limited quantities (LQ) 10 L

SECTION 15: Regulatory information

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

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Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

not relevant

Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

57) hazardous to the Aquatic Environment in category Chronic 2

Deco-Paint Directive (2004/42/EC)

VOC content	41,98 % 470 g/l
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Industrial Emissions Directive (IED) (2010/75/EU)

VOC content	41,89 % 461,3 g/l
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Pollutant release and transfer registers (PRTR)			
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)
xylene, mixed isomers, pure	1330-20-7	(17) (11)	

Legend

(11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded

(17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene)

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
zinc oxide		a)	
trizinc bis(orthophosphate)		a)	

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List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
trizinc bis(orthophosphate)		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Restrictions of occupation

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding / Observe national regulations on maternity protection.

National regulations (Austria)

Ordinance on combustible liquids (VbF)

- VbF (group and hazard class) 3

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 obviously hazardous to water
(water hazard class)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 3 (flammable or desensitizing explosive liquids)

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chron-	Hazardous to the aquatic environment - chronic hazard

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Abbr.	Descriptions of used abbreviations
ic	
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GKV	Grenzwerteverordnung
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
NLP	No-Longer Polymer

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Abbr.	Descriptions of used abbreviations
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TWA	Time-weighted average
VbF	Ordinance on combustible liquids (Austria)
VGÜ	Verordnung über die Gesundheitsüberwachung am Arbeitsplatz (VGÜ)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

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Code	Text
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

Note concerning the lower explosion limit of water-thinnable varnishes:

See PTB research report PEx5 200500185, Physical-Technical Federal Agency Braunschweig, September 2005 and report PTB-W-57, February 1994.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.