

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2022

Version number 05-01

Revision: 26.01.2022

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

1.1 Product identifier

Trade name: **DELTA® Metallschutz plus SG**

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

No further relevant information available.

Application of the substance / the mixture Coating agent

Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Dörken Coatings GmbH & Co. KG
Wetterstr. 58
58313 Herdecke
Germany
www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

Further information obtainable from: msds.coatings@doerken.de

1.4 Emergency telephone number:

Australia: 61-290372994

United Kingdom: 44-870-8200418 and 44-2038073798

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07 GHS09

Signal word Warning**Hazard-determining components of labelling:**

Hydrocarbons, C9, aromatics

xylene (mix)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

1-Methoxy-2-propanol

butanol

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P312 Call a doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH208 Contains n-butyl acrylate. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Vapours of the product are heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Vapours can form explosive mixtures with air.

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In case of inhalation: Higher doses may lead to a narcotic effect.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

EC number: 918-668-5 Reg.nr.: 01-2119455851-35-xxxx	Hydrocarbons, C9, aromatics Alternative CAS number: 64742-95-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335; STOT SE 3, H336	≥10-<25%
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-xxxx	Titanium dioxide Carc. 2, H351	10-25%
CAS: 7779-90-0 EINECS: 231-944-3 Reg.nr.: 01-2119485044-40-xxxx	Trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥10-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥1-<10%
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-xxxx	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	≥1-<5%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-xxxx	2-Butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	<5%
CAS: 7429-90-5 EINECS: 231-072-3 Reg.nr.: 01-2119529243-45-xxxx	aluminium powder (stabilised) Flam. Sol. 1, H228	≥1-<5%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-Methoxy-2-propanol Flam. Liq. 3, H226; STOT SE 3, H336	≥1-<2.5%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33-xxxx	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	≥1-<2.5%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-xxxx	butanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335; STOT SE 3, H336	≥1-<2.5%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	≥0-<2.5%

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CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide ----- Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<2.5%
CAS: 24468-28-8 EINECS: 246-279-4	1,3,5-Triazin-2,4,6-(1H,3H,5H)-trion, Zinksalz ----- Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<1%
CAS: 141-32-2 EINECS: 205-480-7	n-butyl acrylate ----- Flam. Liq. 3, H226; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<0.25%

Additional information:

All hydrocarbons used comply with note P (less than 0.1% benzene) of the CLP regulation.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

In all cases of doubt, or when symptoms persist, seek medical advice.

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Wash with plenty of soap and water.

If skin irritation continues, consult a doctor.

In case of skin reactions consult a physician. Do not scratch.

Take off immediately all contaminated clothing and wash it before reuse.

After eye contact:

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing:

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

Inhalation may cause an irritating effect to mucous membranes.

After eye contact: May cause irritations.

Headache, dizziness, numbness, sickness/nausea, tiredness, stunning effect, dry skin, allergic reactions.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet**5.2 Special hazards arising from the substance or mixture**

Flammable liquid and vapour.

Can form explosive gas-air mixtures.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO₂), carbon monoxide (CO) and nitrogen oxides (NO_x). Inhalation may cause serious health damage.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources and ensure a well-ventilated room. Do not inhale fumes.

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid the formation of ignitable and explosion- hazardous solution vapours.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Material can become charged electrostatically. Anti-static clothing including shoes are recommended.

Avoid contact with skin and eyes as well as inhalation of vapours.

Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Solvent fumes are heavier than air and spread over the ground. Fumes can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Make sure spills can be contained, e.g. in sump pallets.

Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

Information about storage in one common storage facility:

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".

Store away from foodstuffs.

Further information about storage conditions: None.

Storage class: 3

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Additional information about design of technical facilities:**

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

Ingredients with limit values that require monitoring at the workplace:**Hydrocarbons, C9, aromatics**

AGW (Germany)	Long-term value: 50 mg/m ³ 2(II); AGS; vgl. Nr. 2.9 (TRGS 900)
IOELV (EU)	Long-term value: 100 mg/m ³ , 20 ppm (trimethylbenzole)

1330-20-7 xylene (mix)

AGW (Germany)	Long-term value: 220 mg/m ³ , 50 ppm 2(II);DFG, EU, H
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

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34590-94-8 Dipropylene glycol monomethyl etherAGW (Germany) Long-term value: 310 mg/m³, 50 ppm
1(I);DFG, EU, 11IOELV (EU) Long-term value: 308 mg/m³, 50 ppm
Skin**111-76-2 2-Butoxyethanol**AGW (Germany) Long-term value: 49 mg/m³, 10 ppm
2(I);EU, DFG; H, YIOELV (EU) Short-term value: 246 mg/m³, 50 ppm
Long-term value: 98 mg/m³, 20 ppm
Skin**107-98-2 1-Methoxy-2-propanol**AGW (Germany) Long-term value: 370 mg/m³, 100 ppm
2(I);DFG, EU, YIOELV (EU) Short-term value: 568 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Skin**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**AGW (Germany) Long-term value: 300 mg/m³
2(II); AGS; vgl. Nr. 2.9 (TRGS 900)**78-83-1 butanol**AGW (Germany) Long-term value: 310 mg/m³, 100 ppm
1(I);DFG, Y**100-41-4 ethylbenzene**AGW (Germany) Long-term value: 88 mg/m³, 20 ppm
2(II);DFG, H, Y, EUIOELV (EU) Short-term value: 884 mg/m³, 200 ppm
Long-term value: 442 mg/m³, 100 ppm
Skin**141-32-2 n-butyl acrylate**AGW (Germany) Long-term value: 11 mg/m³, 2 ppm
2(I);DFG, EU, Y, H, ShIOELV (EU) Short-term value: 53 mg/m³, 10 ppm
Long-term value: 11 mg/m³, 2 ppm**Regulatory information**

AGW (Germany): TRGS 900

IOELV (EU): (EU) 2019/1831

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Ingredients with biological limit values:

1330-20-7 xylene (mix)

BGW (Germany)	1.5 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol
	2000 mg/L Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure (alle Isomere)

111-76-2 2-Butoxyethanol

BGW (Germany)	150 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Butoxyessigsäure (nach Hydrolyse)
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107-98-2 1-Methoxy-2-propanol

BGW (Germany)	15 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 1-Methoxypropan-2-ol
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100-41-4 ethylbenzene

BGW (Germany)	250 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Mandelsäure plus Phenoxyglyxylsäure
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Regulatory information BGW (Germany): TRGS 903

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls Provide good ventilation and/or an exhaust system in the work area.

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Immediately remove all soiled and contaminated clothing
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.

Respiratory protection:

Use always breathing protection with splashing medium.
Use combination filter type A(-P2) according to EN 141.

Protection of hands:

Work with gloves. Gloves must be inspected for damage before use. Defective or damaged gloves must not be used. Gloves must satisfy the specifications of EC directive 89/686/EWG and standard EN 374.

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Material of gloves

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed safety goggles are to be worn during all work, in accordance with EN 166.

Have eye wash bottle or eye rinse ready at work place.

Professional Cooperative Rules - BGR 192 Use of eye and face protection

Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Fluid
Colour:	Different according to colouring

Odour: Strong after aromatic hydrocarbons

Odour threshold: For mixtures not applicable.

pH-value: Mixture is non-soluble (in water).

Change in condition

Melting point/Freezing point: Not security-related.

Initial boiling point and boiling range: 137-143 °C

Flash point: >23 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 400 °C

Decomposition temperature: For mixtures not applicable.

Auto-ignition temperature: Product is not selfigniting.

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

Explosion limits:

Lower: 0.7 Vol %

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Upper:	7 Vol %
Oxidising properties	The product is flammable, although not oxidising.
Vapour pressure at 20 °C:	8 hPa
Density at 20 °C:	1.37-1.46 g/cm ³
Vapour density	Not applicable.
Evaporation rate	For mixtures not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
polar solvents:	Not miscible or difficult to mix.
non-polar solvents:	Fully miscible.
Partition coefficient: n-octanol/water:	For mixtures not applicable.
Viscosity:	> 90 s (20°C / DIN 53211 / 4 mm) > 60 s (20°C / ISO 2431 / 6 mm) > 20,5 mm ² /s (40°C)
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Vapours can form explosive mixtures with air.

10.2 Chemical stability Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

No dangerous reactions are known.

10.4 Conditions to avoid Keep away from heat sources, sparks and open flames.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products:

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

The quoted data are literature values and/or manufacturer/supplier data.

1330-20-7 xylene (mix)

Oral	LD ₅₀	3,523 mg/kg (rat)
Dermal	LD ₅₀	1,100 mg/kg (ATE)
Inhalative	LC ₅₀ / 4 h	11 mg/l (ATE)

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111-76-2 2-Butoxyethanol

Oral	LD ₅₀	470 mg/kg (rat) (OECD 401)
Dermal	LD ₅₀	1,100 mg/kg (ATE)
Inhalative	LC ₅₀ / 4 h	11 mg/l (ATE)

78-83-1 butanol

Oral	LD ₅₀	>2,800 mg/kg (rat) (OECD 401)
Dermal	LD ₅₀	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC ₅₀ / 4 h	24.6 mg/l (rat)

100-41-4 ethylbenzene

Oral	LD ₅₀	3,500 mg/kg (rat)
Dermal	LD ₅₀	>5,000 mg/kg (rabbit)
Inhalative	LC ₅₀ / 4 h	17.2 mg/l (rat)

Specific symptoms in biological assay:

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Due to the viscosity (see section 9), classification as an aspiration hazard is omitted.

General notes:

Inhalation of solvent concentrations in excess of the OEL or MAK limit values can lead to health damage such as irritation of the mucous membranes and respiratory tract, damage to the kidneys and liver, and impairment of the central nervous system. Symptoms: headaches, dizziness, fatigue, muscle weakness, narcotic effect and, in exceptional cases, loss of consciousness. Prolonged or repeated contact with the product impairs the skin's natural lipid replenishment and causes the skin to dry out. The product can enter the body through the skin. Splashes of solvent may cause irritation to the eye and reversible damage.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics

EC ₅₀ / 48 h	3.2 mg/l (Daphnia magna (big water flea))
LC ₅₀ / 96 h	9.2 mg/l (Oncorhynchus mykiss (rainbow trout))

7779-90-0 Trizinc bis(orthophosphate)

EC ₅₀ / 48 h	0.33-0.66 mg/l (Daphnia magna (big water flea)) (OECD 202)
EC ₅₀ / 72 h	0.14 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC ₅₀ / 96 h	0.17 mg/l (Oncorhynchus mykiss (rainbow trout))

1330-20-7 xylene (mix)

LC ₅₀ / 96 h	13.5 mg/l (fish)
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111-76-2 2-Butoxyethanol

EC ₅₀ / 24 h	1,800 mg/l (Daphnia magna (big water flea))
EC ₅₀ / 72 h	911 mg/l (Selenastrum capricornutum)
LC ₅₀ / 96 h	1,700 mg/l (Oncorhynchus mykiss (rainbow trout)) >100 mg/l (Lepomis macrochirus (bluegill))

78-83-1 butanol

EC ₅₀ / 48 h	1,100 mg/l (Daphnia magna (big water flea))
EC ₅₀ / 72 h	1,799 mg/l (Pseudokirchneriella subcapitata)
LC ₅₀ / 96 h	1,430 mg/l (Pimephales promelas (fathead minnow))
NOEC / 21 d	20 mg/l (Daphnia magna (big water flea))

100-41-4 ethylbenzene

EC ₅₀ / 48 h	2.1 mg/l (Daphnia magna (big water flea))
EC ₅₀ / 96 h	3.6 mg/l (algae)
LC ₅₀ / 96 h	12.1 mg/l (Pimephales promelas (fathead minnow))

1314-13-2 zinc oxide

EC ₅₀ / 48 h	0.17 mg/l (daphnia)
LC ₅₀ / 96 h	0.14 mg/l (Oncorhynchus mykiss (rainbow trout))
IC ₅₀ / 72 h	0.17 mg/l (algae) literature

12.2 Persistence and degradability

Hydrocarbons, C9, aromatics

OECD 301F Manometric Respirometry Test	78 % /O ₂ consump (28d) readily biodegradable
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111-76-2 2-Butoxyethanol	
OECD 301B CO ₂ -Evolution Test (Sturm Test)	90.4 % (28d) readily biodegradable
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Biodegradation	80 % (28d) readily biodegradable
12.3 Bioaccumulative potential	
1330-20-7 xylene (mix)	
Partition Coefficient log Pow	3.16 (n-octanol/water) (20 °C; pH 7)
111-76-2 2-Butoxyethanol	
Partition Coefficient log Pow	0.81 (n-octanol/water) (25 °C; pH 7)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
Partition Coefficient log Pow	5-6.7 (n-octanol/water)
78-83-1 butanol	
Partition Coefficient log Pow	1 (n-octanol/water)

12.4 Mobility in soil No further relevant information available.

General notes:

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.

European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP7	Carcinogenic
HP14	Ecotoxic

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SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1263

14.2 UN proper shipping name

ADR

1263 PAINT, ENVIRONMENTALLY HAZARDOUS

IMDG

PAINT (Hydrocarbons, C9, aromatics, Trizinc bis(orthophosphate)), MARINE POLLUTANT

IATA

PAINT

14.3 Transport hazard class(es)

ADR



Class

3 (F1) Flammable liquids.

Label

3

IMDG



Class

3 Flammable liquids.

Label

3

IATA



Class

3 Flammable liquids.

Label

3

14.4 Packing group

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances:
Trizinc bis(orthophosphate)

Marine pollutant:

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code):

30

EMS Number:

F-E,S-E

Stowage Category

A

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:**ADR****Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

D/E

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1263 PAINT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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Regulation (EC) No 273/2004 on drug precursors

108-88-3 toluene

3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

108-88-3 toluene

3

National regulations:

Information about limitation of use:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Labelling according to Regulation (EC) No 2004/42

VOC limit according to 2004/42/EC for category i (SB) and maximum VOC content: see lid.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose. The user is responsible for the observance of all necessary legal instructions.

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".
Misuse may cause damage to health and environment.

Labelling according to regulation (EC) No 528/2012

Additional information:

Contains n-butyl acrylate. May produce an allergic reaction.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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H351 Suspected of causing cancer.

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.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids

On basis of test data

Skin corrosion/irritation

Serious eye damage/eye irritation

Specific target organ toxicity (single exposure)

Hazardous to the aquatic environment - long-term
(chronic) aquatic hazardThe classification of the mixture is generally based on
the calculation method using substance data
according to Regulation (EC) No 1272/2008.**Abbreviations and acronyms:**

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 1: Flammable solids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**