

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Decking Oil semi-gloss colorless and coloured
Art. No. 3753, 37531

Revision date : 29.06.2022

Print date : 29.06.2022

Version (Revision) : 3.0.2 (3.0.1)

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

1.1 Product identifier

Decking Oil semi-gloss colorless and coloured
Art. No. 3753, 37531

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

Relevant identified uses

Product Categories [PC] Coatings and paints, fillers, putties, thinners

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

BIOFA Naturprodukte W.Hahn GmbH

Street : Dobelstr.22

Postal code/city : D-73087 Bad Boll

Telephone : +49 (0) 7164-9405-0

Telefax : +49 (0) 7164-9405-94

Information contact :

E-mail address for information to the safety data sheet: biofa@info.de

1.4 Emergency telephone number

During office time 7:30 to 16:30: +49 (0) 7164-9405-0

Emergency telephone number Berlin (24 h): +49(0)30/30686700 Support in English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P262 Do not get in eyes, on skin, or on clothing.

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

P273 Avoid release to the environment.

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

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

Special rules for supplemental label elements for certain mixtures

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EUH208	Contains Cobaltbis(2-ethylhexanoate) ; OCHTHILINONE (ISO) ; 4,5-dichloro-2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

Results of PBT and vPvB assessment: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; EC No. : 918-481-9; CAS No. : 64742-48-9 ; REACH registration No. : 01-2119457273-39

Weight fraction : $\geq 20 - < 25$ %

Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7 ; REACH registration No. : 01-2119489379-17

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Carc. 2 ; H351

ZINC OXIDE ; EC No. : 215-222-5; CAS No. : 1314-13-2 ; REACH registration No. : 01-2119463881-32

Weight fraction : $\geq 1 - < 2,5$ %

Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

2-Ethylhexanoic acid, Zirconium salt ; EC No. : 245-018-1; CAS No. : 22464-99-9 ; REACH registration No. : 01-2119979088-21

Weight fraction : < 0,5 %

Classification 1272/2008 [CLP] : Repr. 2 ; H361d

Cobaltbis(2-ethylhexanoate) ; EC No. : 205-250-6; CAS No. : 136-52-7 ; REACH registration No. : 01-2119524678-29

Weight fraction : $\geq 0,1 - < 0,25$ %

Classification 1272/2008 [CLP] : Repr. 1B ; H360F Skin Sens. 1A ; H317 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

OCHTHILINONE (ISO) ; EC No. : 247-761-7; CAS No. : 26530-20-1

Weight fraction : $\geq 0,005 - < 0,05$ %

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

4,5-dichloro-2-octyl-2H-isothiazol-3-one ; EC No. : 264-843-8; CAS No. : 64359-81-5

Weight fraction : $\geq 0,001 - < 0,002$ %

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1A ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

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4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Immediately remove all contaminated clothing.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

After ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

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).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂) Water spray Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard. " In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Avoid inhalation of vapours. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform

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the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Wear anti-static footwear and clothing. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Use only antistatically equipped (spark-free) tools. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations. Do not allow to enter into surface water or drains.

Protective measures

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Hints on joint storage

Keep away from: Alkali (lye). Acid Oxidizing agent

Storage class : 10

Storage class (TRGS 510) : 10

Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place. Protect against Heat. Frost Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition - No smoking. Only allow access to authorised staff.

7.3 Specific end use(s)

Oleoresinous coating for wooden terrace planks outdoors.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

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NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9

Limit value type (country of origin) : AGW (D)
Limit value : 250 mg/m³
Remark : Schichtmittelwert (8 h) TRGS 900
Version :

Limit value type (country of origin) : AGW (D)
Limit value : 500 mg/m³
Remark : Kurzzeitwert (15 min.) TRGS 900
Version :

TITANIUM DIOXIDE ; CAS No. : 13463-67-7

Limit value type (country of origin) : AGW (D)
Parameter : A: respirable fraction
Limit value : 1,25 mg/m³
Version :

Limit value type (country of origin) : AGW (D)
Parameter : E: inhalable fraction
Limit value : 10 mg/m³
Version :

OCTHILINONE (ISO) ; CAS No. : 26530-20-1

Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 0,05 mg/m³
Peak limitation : 2(I)
Remark : H,Y
Version : 17.10.2017

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local and systemic) (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Exposure route : Oral
Exposure frequency : Short-term
Limit value : 700 mg/kg
Safety factor : 1 day(s)
Limit value type : DNEL worker (local) (TITANIUM DIOXIDE ; CAS No. : 13463-67-7)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 10 mg/m³

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation or good general extraction. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Safety data sheet of raw material suppliers or taken by accredited Laboratories or have been determined internally

Eye/face protection

Suitable eye protection : Eye glasses with side protection

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Skin protection

After cleaning apply high-fat content skin care cream.

Hand protection

Tested protective gloves must be worn DIN EN 374
Breakthrough times and swelling properties of the material must be taken into consideration.

By long-term hand contact Suitable material : Butyl caoutchouc (butyl rubber)
Thickness of the glove material : 0,7 mm
Breakthrough time (maximum wearing time) : > 480 min.

By short-term hand contact Suitable material : NBR (Nitrile rubber)
Thickness of the glove material : 0,4 mm
Breakthrough time (maximum wearing time) : > 120 min.

Body protection

Personnel should wear impermeable and antistatic protective work clothing.
Recommended material : Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values , insufficient ventilation insufficient exhaust prolonged exposure aerosol or mist formation.
Suitable respiratory protection apparatus
Combination filtering device (EN 14387) A 2 P 2
Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)
Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits:
P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

Environmental exposure controls

See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid:

Colour : Depending on colour

Odour

smells like solvents

Odour threshold

Not determined

Safety relevant basis data

Melting point/melting range :			No data available	
Initial boiling point and boiling range :	(1013 hPa)	>	180 °C	
Decomposition temperature :			No data available	
Flash point :		>	65 °C	DIN EN ISO 1523
Ignition temperature :		>	200 °C	

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Lower explosion limit :		approx.	0,6	Vol-%	
Upper explosion limit :		approx.	7	Vol-%	
Vapour pressure :	(50 °C)	approx.	4	hPa	
Density :	(20 °C)		0,94 - 0,95	g/cm ³	DIN 53217
Solvent separation test :	(20 °C)		No data available		
Water solubility :	(20 °C)		insoluble		
pH :			not applicable		
Flow time:	(20 °C)	>	100	s	DIN-Cup 3mm
Flow time :	(20 °C)		30 - 40	s	DIN-cup 4 mm
Cinematic viscosity :	(40 °C)	>	21	mm ² /s	
Solid content :			75 - 80	Wt %	
Solvent content :			20 - 25	Wt %	
Maximum VOC content (EC) :			20 - 25	Wt %	
Maximum VOC content (Switzerland) :			20 - 25	Wt %	

Self-ignition: Product is not self-igniting.

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

Relative density: Not determined

Vapour density: Not determined

Evaporation rate: Not determined

N-octanol-water partition coefficient: Not determined

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability

Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

10.4 Conditions to avoid

Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials

Alkali (lye). Acid Oxidizing agent.

10.6 Hazardous decomposition products

By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

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Parameter : LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Exposure route : Oral

Species : Rat

Effective dose : > 5000 mg/kg

Parameter : LD50 (ZINC OXIDE ; CAS No. : 1314-13-2)

Exposure route : Oral

Species : Rat

Effective dose : 7950 mg/kg

Parameter : LD50 (Cobaltbis(2-ethylhexanoate) ; CAS No. : 136-52-7)

Exposure route : Oral

Species : Rat

Effective dose : 3129 mg/kg

Parameter : ATE (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)

Exposure route : Oral

Effective dose : 567 mg/kg

Acute dermal toxicity

Parameter : LD50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Exposure route : Dermal

Species : Rabbit

Effective dose : > 2000 mg/kg

Parameter : LD50 (Cobaltbis(2-ethylhexanoate) ; CAS No. : 136-52-7)

Exposure route : Dermal

Species : Rat

Effective dose : > 2000 mg/kg

Exposure time : 24 h

Acute inhalation toxicity

Parameter : LC50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Exposure route : Inhalation

Species : Rat

Effective dose : > 9300 mg/m³

Exposure time : 4 h

Parameter : LC50 (ZINC OXIDE ; CAS No. : 1314-13-2)

Exposure route : Inhalation

Species : Mouse

Effective dose : 2500 mg/m³

Parameter : ATE (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)

Exposure route : Inhalation

Effective dose : 0,16 mg/l

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Parameter : Primary irritation to the skin (Cobaltbis(2-ethylhexanoate) ; CAS No. : 136-52-7)

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Effective dose : 0,25 - 0,5 %

May produce an allergic reaction. .

Irritation to eyes

Parameter : Irritation to eyes (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

The product is: Not an irritant.

Irritation to respiratory tract

Parameter : Irritation to respiratory tract (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

The product is: Not an irritant.

Sensitisation

May produce an allergic reaction.

In case of skin contact

Parameter : Skin sensitisation (OCTHILINONE (ISO) ; CAS No. : 26530-20-1)

Species : Mouse

Parameter : Skin sensitisation (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)

Species : Mouse

Repeated dose toxicity (subacute, subchronic, chronic)

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Toxicological data are not available.

Germ cell mutagenicity

Toxicological data are not available.

Reproductive toxicity

Toxicological data are not available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

Acute (short-term) fish toxicity

Parameter : LL50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Species : Oncorhynchus mykiss (Rainbow trout)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : > 1000 mg/l

Exposure time : 24 h

Parameter : LL50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Species : Daphnia magna (Big water flea)

Evaluation parameter : Acute (short-term) daphnia toxicity

Effective dose : > 1000 mg/l

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Exposure time : 24 h
Parameter : LL50 (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)

Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 1000 mg/l
Exposure time : 72 h
Parameter : LC50 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,036 mg/l
Exposure time : 96 h
Parameter : LC50 (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 0,0078 mg/l
Exposure time : 96 h
Parameter : EC50 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,084 mg/l
Exposure time : 72 h

Chronic (long-term) fish toxicity

Parameter : Chronic (long-term) fish toxicity (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : > 1000 mg/l
Exposure time : 24 h
Parameter : NOELR (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 0,1 mg/l
Exposure time : 28 day(s)
Parameter : NOELR (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,18 mg/l
Exposure time : 21 day(s)
Parameter : NOEC (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 0,022 mg/l
Exposure time : 28 day(s)

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Parameter : NOEC (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : 0,00047 mg/l
Exposure time : 28 day(s)

Acute (short-term) daphnia toxicity

Parameter : EC50 (OCTHILINONE (ISO) ; CAS No. : 26530-20-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,42 mg/l
Exposure time : 48 h

Parameter : EC50 (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 0,0097 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (OCTHILINONE (ISO) ; CAS No. : 26530-20-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,002 mg/l
Exposure time : 21 day(s)

Parameter : NOEC (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 0,0004 mg/l
Exposure time : 21 day(s)

Acute (short-term) algae toxicity

Parameter : IC50 (ZINC OXIDE ; CAS No. : 1314-13-2)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : = 136 mg/l
Exposure time : 72 h

Parameter : IC50 (Cobaltbis(2-ethylhexanoate) ; CAS No. : 136-52-7)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : = 0,528 g/l

Parameter : EC50 (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 0,025 mg/l
Exposure time : 72 h

Chronic (long-term) algae toxicity

Parameter : NOEC (ZINC OXIDE ; CAS No. : 1314-13-2)
Species : Chronic (long-term) algae toxicity
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : = 0,011 mg/l
Exposure time : 120 h

Parameter : NOEC (OCTHILINONE (ISO) ; CAS No. : 26530-20-1)

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Species : Chronic (long-term) algae toxicity
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : 0,004 mg/l
Exposure time : 72 hour(s)
Parameter : NOEC (4,5-dichloro-2-octyl-2H-isothiazol-3-one ; CAS No. : 64359-81-5)
Species : Chronic (long-term) algae toxicity
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : 0,015 mg/l
Exposure time : 72 day(s)

Effects in sewage plants

Parameter : EC20 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Inoculum : Activated sludge
Evaluation parameter : Effects in sewage plants
Effective dose : 10,4 mg/l
Exposure time : 0,5 h
Parameter : EC20 (OCHTHILINONE (ISO) ; CAS No. : 26530-20-1)
Inoculum : Activated sludge
Evaluation parameter : Effects in sewage plants
Effective dose : 7,3 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

No data available

Biodegradation

Parameter : Biodegradation (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY Hydrocarbons, C10-C13, n-alkane, iso-alkane, cyclo-alkane < 2% aromatic hydrocarbons, < 0,1% benzene ; CAS No. : 64742-48-9)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : 80 %
Exposure time : 28 day(s)

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No data available

12.7 Additional ecotoxicological information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Do not allow to enter into surface water or drains.

Product/Packaging disposal

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Wastes and empty containers must be classified in accordance with the Waste Catalogue Ordinance.

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11*

Waste name

Waste paint and varnish containing organic solvents or other dangerous substances.

Waste code packaging

15 01 10*

Waste name

Packaging containing residues of or contaminated by dangerous substances.

Non-contaminated packages may be recycled.

Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

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

Not applicable

14.8 Additional information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer. Not applicable

Directive 96/82/EC for danger control following severe accidents with dangerous substances Not subject to 96/82/EC

National regulations

Restrictions of occupation

None, if handled according to order.

Störfallverordnung

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Not subject to StörfallVO.

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

Weight fraction (Number 5.2.5. II) : 20 - 25 %

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

VOC-Regulation (31. BImSchV)

VOC product category : Paints and varnishes

VOC subcategory of the product : One-pack performance coatings

VOC limit value step II (g/L), ready-to-use condition : 500

Maximum VOC content (g/L) of the product in a ready to use condition : 220

Additional information

Giscode : BSL10

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Special rules for supplemental label elements for certain mixtures · 03. Hazardous ingredients · 08. Occupational exposure limit values · 08. DNEL/DMEL · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

Acute Tox.	Akute Toxizität
ADR	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road – Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße)
Aquatic Acute	Akute aquatische Toxizität
Aquatic Chronic	Chronische aquatische Toxizität
Asp. Tox.	Aspirationsgefahr
AVV	Abfallverzeichnis-Verordnung
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BImSchV	Verordnung zur Durchführung des Bundesimmissionsschutzgesetzes
CAS	Chemical Abstracts Service – Gesellschaft für die Vergabe von CAS-Nummern
CLP	Classification, Labelling and Packaging (Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen)
CMR	carcinogen, mutagen, reproduktionstoxisch (krebserzeugend, erbgutverändernd, fortpflanzungsgefährdend)
DIN	Deutsches Institut für Normung
EAK	Europäischer Abfallkatalog
EC50	Mittlere effektive Konzentration
EN	Europäische Norm
EU	Europäische Union
EUH	Europäische Gefahrenhinweise
Eye Dam.	Schwere Augenschädigung
Eye Irrit.	Augenreizend
Flam. Liq.	Entzündbare Flüssigkeit
GHS	Globally Harmonised System of Classification and Labelling of Chemicals (Global Harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien)

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hPa	Hectopascal
IATA-DGR	International Air Transport Association –Dangerous Goods Regulations (Gefahrgutvorschriften der Internationalen Flug-Transport-Vereinigung)
ICAO-TI	International Civil Aviation Organization-Technical Instructions (Technische Anleitungen für den sicheren Transport von Gefahrgütern in der Luft der zivilen Luftfahrtgesellschaft)
IC50	Halbmaximale Hemmstoffkonzentration
IMDG	International Maritime Code for Dangerous Goods (Internationaler Code für Gefahrgüter auf See
ISO	International Standards Organization (Internationale Organisation für Normung)
LC50	Lethal concentration, 50 percent (Lethale Konzentration für 50% einer Versuchspopulation)
LD50	Lethal dose, 50 percent (Lethale Dosis für 50% einer Versuchspopulation)
LQ	Limited Quantities (begrenzte Mengen)
MAK	Maximale Arbeitsplatzkonzentrationswerte gesundheitsgefährdender Stoffe
Met. Corr.	Korrosiv gegenüber Metallen
NOEC	No Observed Effect Concentration (Tierexperimentell festgelegte höchste Konzentration, bei der keine Wirkung – schädigender Effekt – mehr nachweisbar ist)
PBT	Persistent, Bioaccumulative and Toxic (persistent, bioakkumulierbar und toxisch)
RCP	Reciprocal Calculation-based Procedure (Methode zur Berechnung von Arbeitsplatzgrenzwerten von Kohlenwasserstoffgemischen)
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Verordnung (EG) Nr. 1907/2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe)
RID	Reglement concernant le transport International ferroviaire de marchandises Dangereuses (Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr)
Skin Corr.	Hautätzende Wirkung
Skin Irrit.	Hautreizende Wirkung
Skin Sens.	Sensibilisierung durch Hautkontakt
STOT RE	Spezifische Zielorgan-Toxizität – wiederholte Exposition
STOT SE	Spezifische Zielorgan-Toxizität – bei einmaliger Exposition
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations (Vereinte Nationen)
VbF	Verordnung über brennbare Flüssigkeiten (Österreichische Verordnung)
VOC	Volatile Organic Compounds (flüchtige organische Verbindungen)
vPvB	very Persistent and very Bioaccumulative (sehr persistent und sehr bioakkumulierbar)
WGK	Wassergefährdungsklasse (German Water Hazard Class)

Siehe auch Übersichtstabellen unter www.euphrac.com oder <http://abk.esdscom.eu>

16.3 Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version.

Transport regulations according ADR, RID, IMDG, IATA in the current version.

Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been determined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification and evaluation was carried out by the calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
