according to Regulation (EC) No. 1907/2006



Commercial Product Name: TOP CLEAN-Decklack 476-19

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Version 2

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

1.1 Product identifier

Trade name : TOP CLEAN-Decklack 476-19 RAL 7032 kieselgrau / pebble

grey seidenmatt

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

Use of the Sub-: Industrial serial painting

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Producer : Mankiewicz Gebr. & Co. (GmbH & Co. KG)

Georg-Wilhelm-Strasse 189

21107 Hamburg

Germany

Telephone +49 (0) 40 75103 0 Telefax +49 (0) 40 75103 375 E-mail address of person sdb_info@umco.de

responsible for the SDS

1.4 Emergency telephone number

Emergency telephone num-: +44 1235 239670 (Carechem International)

ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms





Signal word Warning

Flammable liquid and vapour. Hazard statements H226

> H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Prevention: Precautionary statements

> P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261

P273 Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Hydrocarbons, C9, aromatics

2-methoxy-1-methylethyl acetate

n-butyl acetate

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified

reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-?-

hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-

hydroxyphenyl)propionyl-?-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-

hydroxyphenyl)propionyloxypoly(oxyethylene)

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-

pentamethyl-4-piperidyl sebacate

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature Mixture of synthetic resins, organic solvents and pigments

Mankiewicz Gebr. & Co. (GmbH & Co. KG) Bank Name Georg-Wilhelm-Straße 189 21107 Hamburg (Wilhelmsburg) Tel.: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75



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Components

| Components | 0.0.0.11 | To: ::: :: | |
|--|--|--|--------------------------|
| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
| Hydrocarbons, C9, aromatics | 64742-95-6 918-668-5 01-2119455851-35 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 5 - < 12.5 |
| 2-methoxy-1-methylethyl acetate | 108-65-6 203-603-9 607-195-00-7 01-2119475791-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 5 - < 12.5 |
| xylene | 1330-20-7 215-535-7 601-022-00-9 01-2119488216-32 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 | >= 5 - < 10 |
| n-butyl acetate | 123-86-4 204-658-1 607-025-00-1 01-2119485493-29 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) | >= 5 - < 12.5 |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6 265-199-0 649-356-00-4 01-2119455851-35, 01-2119486773-24 | Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 2.5 - < 5 |
| ethylbenzene | 100-41-4 202-849-4 601-023-00-4 01-2119489370-35 | Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-?-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- | Not Assigned 400-830-7 607-176-00-3 01-0000015075-76 | Skin Sens. 1; H317 Aquatic Chronic 2; H411 | >= 1 - < 2.5 |

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| | ?-3-(3-(2H-benzotriazol-2-yl)-5- tert-butyl-4- hydroxy- phe- nyl)propionyloxypoly(oxyethylene) | | | |
|-----|--|---|--|----------------------|
| | Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5 01-2119491304-40 | Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0.5 - < 1 |
| | Substances with a workplace expos | sure limit : | • | |
| | titanium dioxide | 13463-67-7 236-675-5 01-2119489379-17 | | >= 25 - < 40 |
| The | se contain: | | • | |
| | 2-methoxypropyl acetate | 70657-70-4 274-724-2 607-251-00-0 | Flam. Liq. 3; H226 Repr. 1B; H360D STOT SE 3; H335 (Respiratory system) | > 40 - <= 100 PPM |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice In all cases of doubt, or when sickness symptoms persist,

seek medica lattention.

Never give anything by mouth to an unconscious person.

If inhaled Remove to fresh air, keep patient warm and at rest.

Irregular breathing/no breathing: artificial respiration.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact Take off all contaminated clothing immediately.

Wash skin thoroughly with soap and water or use recognised

skin cleanser.

Do NOT use solvents or thinners!

In case of eye contact Remove contact lenses, irrigate copiously with clean, fresh

water for at least 10 minutes, holding the eyelids apart and

seek medical advice.

If swallowed Do NOT induce vomiting.

> If accidentally swallowed obtain immediate medical attention. Never give anything by mouth to an unconscious person.

Keep at rest.

4.2 Most important symptoms and effects, both acute and delayed

Risks May cause an allergic skin reaction.

May cause drowsiness or dizziness.

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4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol resistant foam, CO2, powders

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Fire will produce dense black smoke. Exposure to decomposi-

tion products may cause a health hazard.

5.3 Advice for firefighters

for firefighters

Special protective equipment: Appropriate breathing apparatus may be required.

Further information Cool endangered containers with water in case of fire.

DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO

ENTER DRAINS OR WATER COURSES!!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Exclude sources of ignition and ventilate the area.

Do not inhale vapours.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions Do not let product enter drains.

> If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Contain and collect spillage with non-combustible absorbent

> materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regula-

tions (see chapter 13).

Clean preferably with a detergent; avoid use of solvents.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006



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Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

Comply with the health and safety at work laws.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Observe specific national regulations for handling and use of

paints.

Advice on protection against fire and explosion

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads whentransferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container isnot a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on stor-

age conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Advice on common storage

Keep away from oxidizing agents and strongly acid or alkaline

materials.

Recommended storage tem-

perature

5 - 35 °C

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------|------------|-------------------------------|--------------------|---------|
| titanium dioxide | 13463-67-7 | TWA (inhalable dust) | 10 mg/m3 | GB EH40 |
| | | TWA (Respirable dust) | 4 mg/m3 | GB EH40 |

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| 2-methoxy-1- methylethyl ace- tate | 108-65-6 | STEL | 100 ppm 550 mg/m3 | 2000/39/EC | | | |
|--|--|---|---|------------------|--|--|--|
| | Further inforr skin, Indication | | possibility of significant upt | take through the | | | |
| | , | TWA | 50 ppm 275 mg/m3 | 2000/39/EC | | | |
| | Further inforr | | possibility of significant upt | take through the | | | |
| | , | TWA | 50 ppm 274 mg/m3 | GB EH40 | | | |
| | stances are t | hose for which there | rbed through the skin. The are concerns that dermal a | | | | |
| | lead to syste | STEL | 100 ppm 548 mg/m3 | GB EH40 | | | |
| | | hose for which there | rbed through the skin. The are concerns that dermal a | | | | |
| xylene | 1330-20-7 | TWA | 50 ppm 221 mg/m3 | 2000/39/EC | | | |
| | Further inforr | Further information: Identifies the possibility of significant uptake through the | | | | | |
| | , | STEL | 100 ppm 442 mg/m3 | 2000/39/EC | | | |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | | | |
| | oran, marcan | TWA | 50 ppm 220 mg/m3 | GB EH40 | | | |
| | | hose for which there | rbed through the skin. The are concerns that dermal a | | | | |
| | | STEL | 100 ppm 441 mg/m3 | GB EH40 | | | |
| | | hose for which there | rbed through the skin. The are concerns that dermal a | | | | |
| n-butyl acetate | 123-86-4 | TWA | 150 ppm 724 mg/m3 | GB EH40 | | | |
| | | STEL | 200 ppm 966 mg/m3 | GB EH40 | | | |
| | | STEL | 150 ppm 723 mg/m3 | 2019/1831/E U | | | |
| | Further inforr | nation: Indicative | | - 1 | | | |
| | | TWA | 50 ppm 241 mg/m3 | 2019/1831/E U | | | |
| | Further inforr | nation: Indicative | • | | | | |
| ethylbenzene | 100-41-4 | TWA | 100 ppm 442 mg/m3 | 2000/39/EC | | | |
| | Further inforr skin, Indicativ | | possibility of significant upt | take through the | | | |
| | | STEL | 200 ppm 884 mg/m3 | 2000/39/EC | | | |

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| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | |
|-----------------|--|----------------------|---------|--|--|
| | TWA | 100 ppm 441 mg/m3 | GB EH40 | | |
| stances are the | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |
| | STEL | 125 ppm 552 mg/m3 | GB EH40 | | |
| stances are the | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|-----------|---|---------------|----------------|
| xylene | 1330-20-7 | methyl hippuric acid: 650 Millimo- les per mole Creat- inine | After shift | GB EH40 BAT |
| | | (Urine) | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-------------------------------------|-----------|-----------------|----------------------------|----------------------|
| Hydrocarbons, C9, aromatics | Workers | Inhalation | Long-term systemic effects | 150 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 25 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 11 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 11 mg/kg bw/day |
| 2-methoxy-1- methylethyl acetate | Workers | Inhalation | Long-term systemic effects | 275 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 796 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 33 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 320 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 36 mg/kg bw/day |
| xylene | Workers | Inhalation | Long-term systemic effects | 221 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 212 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 65.3 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 125 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 12.5 mg/kg bw/day |

| Mankiewicz Gebr. & Co. (GmbH & Co. KG) | Bank Name | Ort | Kto.-Nr. | BLZ | BIC | IBAN | Sitz/Registergericht Hamburg: HRA 42442 | Bureau Veritas | Georg-Villnelm-Straße 189 | Eutore Michael | Eutore Michael



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| n-butyl acetate | Workers | Inhalation | Long-term systemic effects | 300 mg/m3 |
|---|-----------|------------|----------------------------|-----------------------|
| | Workers | Dermal | Long-term systemic effects | 11 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 35.7 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 6 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 2 mg/kg bw/day |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified | Workers | Inhalation | Long-term systemic effects | 150 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 25 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 11 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 11 mg/kg bw/day |
| ethylbenzene | Workers | Inhalation | Long-term systemic effects | 77 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 180 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 15 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 1.6 mg/kg bw/day |
| reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-?-hydroxy-poly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-?-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phe-nyl)propionyloxypoly(oxyethylene) | Workers | Inhalation | Long-term systemic effects | 0.398 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.25 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.099 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.025 mg/kg bw/day |

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| | Consumers | Oral | Long-term systemic effects | 0.025 mg/kg bw/day |
|--|-----------|------------|----------------------------|-----------------------|
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Workers | Inhalation | Long-term systemic effects | 0.68 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 0.5 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.17 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 0.25 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 0.05 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---------------------------------|---------------------------|-----------------|
| 2-methoxy-1-methylethyl acetate | Fresh water | 0.635 mg/l |
| | Marine water | 0.064 mg/l |
| | Fresh water sediment | 3.29 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 0.329 mg/kg dry |
| | | weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Soil | 0.29 mg/kg dry |
| | | weight (d.w.) |
| xylene | Fresh water | 0.327 mg/l |
| | Marine water | 0.327 mg/l |
| | Fresh water sediment | 12.46 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 12.46 mg/kg dry |
| | | weight (d.w.) |
| | Sewage treatment plant | 6.58 mg/l |
| | Soil | 2.31 mg/kg dry |
| | | weight (d.w.) |
| n-butyl acetate | Fresh water | 0.18 mg/l |
| | Marine water | 0.0018 mg/l |
| | Fresh water sediment | 0.981 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 0.098 mg/kg dry |
| | | weight (d.w.) |
| | Sewage treatment plant | 35.6 mg/l |
| | Soil | 0.09 mg/kg dry |
| | | weight (d.w.) |
| ethylbenzene | Fresh water | 0.1 mg/l |
| | Marine water | 0.01 mg/l |
| | Fresh water sediment | 13.7 mg/kg dry |
| | | weight (d.w.) |
| | Marine sediment | 1.37 mg/kg dry |
| | | weight (d.w.) |
| | Sewage treatment plant | 9.6 mg/l |

 Mankiewicz Gebr. & Co. (GmbH & Co. KG)
 Bank Name
 Ort
 Kto.-Nr.
 BLZ
 BIC
 IBAN
 Sitz/Registergericht Hamburg: HRA 424/42
 Bureau Verltas

 Georg-Wilhelm-Straße 189
 Deutsche Bank
 Hamburg (600227300
 200 700 00
 DEUTDEHHXXX
 DES8 2007 0000 0600 2273 00
 Persönlich haftende Gesellschafterin: Certification: Certification: State 189
 Certification: State 189
 Certification: State 189
 Certification: State 189
 State 200 0000 059 2733 00
 Geschäftsführender Gesellschafterin: State 189
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| | Soil | 2.68 mg/kg dry weight (d.w.) |
|--|------------------------|----------------------------------|
| reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-?-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-?-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phe-nyl)propionyloxypoly(oxyethylene) | Fresh water | 0.023 mg/l |
| | Marine water | 0 mg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 7.26 mg/kg dry weight (d.w.) |
| | Marine water | 0.726 mg/kg dry weight (d.w.) |
| | Soil | 14.52 mg/kg dry weight (d.w.) |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | Fresh water | 0.002 mg/l |
| | Marine water | 0 mg/l |
| | Sewage treatment plant | 1 mg/l |
| | Fresh water sediment | 1.05 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.11 mg/kg dry weight (d.w.) |
| | Soil | 0.21 mg/kg dry weight (d.w.) |

8.2 Exposure controls

Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

Personal protective equipment

Eye protection Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks Adhere to the professional organisation rule "Use of protec-

tive gloves". Appropriate chemicals resistant glove tested in

compliance with EN 374.

Recommendation for protection against components general-

ly found in the products:

For short-term contact (i.e. splash protection):

| Mankiewicz Gebr. & Co. (GmbH & Co. KG) | Bank Name | Ort | Kto-Nr. | BLZ | BIC | IBAN | BIS/ | BIS

ISO 9001,



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Appropriate material: nitrile rubber, Neoprene

Material thickness: > 0.4 mmBreakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection

Personal should wear antistatic clothings made of natural fiber or ofhigh temperature resistant synthetic fiber. All parts of the body shouldbe washed after contact.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use half-mask model with cartridge or air-fed.

Dry grinding, torch cutting and/or welding however can pro-

duce hazardous dust and/or vapour.

If possible, machine employing a wet medium.

Where practicable, install exhaust hoods to improve capture of vapours and fumes and avoid exposition; otherwise wear

respiratory protection equipment.

Protective measures

Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance liquid

Colour according product name

Odour characteristic

рΗ 5 - 7 (20 °C)

Concentration: 10 %

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 Generalistick/Hospitstergericht Gesellschafter/Hamburg: RBB 17189
 Geschäftsführender Gesellschafter: Michael O. Grau

ISO 9001

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Boiling point/boiling range : ca. 120 °C

27 °C Flash point

Method: ISO 13736

Upper explosion limit 10 %(V)

Lower explosion limit 1 %(V)

Vapour pressure ca. 100 hPa (50 °C)

Density ca. 1.4 g/cm3 (20 °C)

Solubility(ies)

Water solubility insoluble

Auto-ignition temperature > 400 °C

Viscosity

> 150 s Flow time

> Cross section: 4 mm Method: DIN 53211

> 100 s

Cross section: 6 mm Method: ISO 2431

9.2 Other information

Solvent separation < 3%(V)

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

There are no data available on the preparation itself.

10.4 Conditions to avoid

Conditions to avoid Stable under recommended storage and handling conditions

(See section 7).

10.5 Incompatible materials

Materials to avoid Keep away from oxidizing agents, strongly alkaline and

strongly acid materials in order to avoid exothermic reactions.

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10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity Acute toxicity estimate: > 20 mg/l

> Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

xylene:

Acute oral toxicity LD50 Oral (Rat): 4,300 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

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Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks Exposure of vapour concentration in excess of the stated

> OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of con-

sciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in nonallergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and re-

versible damage.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity There are no data available on the preparation itself.

Components:

Hydrocarbons, C9, aromatics:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.9

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Toxicity to fish (Fish): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

(Daphnia magna (Water flea)): 3.2 mg/l

aquatic invertebrates

Exposure time: 48 h

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Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

(Pseudokirchneriella subcapitata (green algae)): 2.6 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6pentamethyl-4-piperidyl sebacate:

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.97 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 20 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 1.68 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: The product has low solubility in the test medium.

An aqueous dispersion was tested.

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Remarks: The product has low solubility in the test medium.

An aqueous dispersion was tested.

12.2 Persistence and degradability

Product:

Biodegradability Remarks: There are no data available on the preparation it-

self.

12.3 Bioaccumulative potential

Product:

Bioaccumulation Remarks: There are no data available on the preparation it-

self.

12.4 Mobility in soil

Product:

Mobility Remarks: There are no data available on the preparation it-

self.

12.5 Results of PBT and vPvB assessment

Product:

according to Regulation (EC) No. 1907/2006



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This substance/mixture contains no components considered Assessment

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

There are no data available on the preparation itself.

The product should not be allowed to enter drains or water

courses.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product The listed waste code numbers, according to the European

Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional

waste disposal company.

Contaminated packaging Contaminated packaging should be emptied as far as possible

> and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

Waste key for the unused

product

waste paint and varnish containing organic

solvents or other hazardous substances

SECTION 14: Transport information

14.1 UN number

ADR UN 1263 **IMDG** UN 1263 **IATA** UN 1263

14.2 UN proper shipping name

ADR PAINT IMDG PAINT IATA PAINT

14.3 Transport hazard class(es)

ADR 3 **IMDG** 3 **IATA** 3

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 Geschlätsthrender Gesellschafter:
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14.4 Packing group

ADR

Packing group Ш Classification Code F1 30 Hazard Identification Number Labels 3 (D/E) Tunnel restriction code

If transported within the user's premises: To be transported Remarks

> always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of

conduct in case of incident or spillage.

IMDG

Packing group Ш Labels 3 **EmS Code** <u>F-E</u>, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo 366

aircraft)

Packing group Ш

Labels Flammable Liquids

355

IATA (Passenger)

Packing instruction (passen-

ger aircraft)

Packing instruction (LQ) Y344 Packing group Ш

Labels Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous no

IMDG

Marine pollutant no

14.6 Special precautions for user

Remarks ADR: Receptacles with less than 450 litres capacity, are not

subject to ADR (see ADR 2.2.3.1.5)

IMDG: Receptacles with less than 450 litres capacity, are not subject to the regulations of IMDG chapters 4.1, 5.2 and 6.1

(see IMDG 2.3.2.5)

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006



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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Conditions of restriction for the following entries should be considered:

Number on list 3

Not applicable

Not applicable

Volatile organic compounds

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 38.71 %, 542 g/l

VOC content excluding water

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

SECTION 16: Other information

Full text of H-Statements

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

May be fatal if swallowed and enters airways. H304

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H360D May damage the unborn child.

May cause damage to organs through prolonged or repeated H373

exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

Full text of other abbreviations

Acute Tox. Acute toxicity

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Aspiration hazard Asp. Tox. Eye Irrit. Eye irritation Flam. Liq. Flammable liquids Skin Irrit. Skin irritation Skin sensitisation Skin Sens.

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

Europe. Commission Directive 2000/39/EC establishing a first 2000/39/EC

list of indicative occupational exposure limit values

2019/1831/EU Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

GB EH40 UK. EH40 WEL - Workplace Exposure Limits GB EH40 BAT UK. Biological monitoring guidance values

2000/39/EC / TWA Limit Value - eight hours Short term exposure limit 2000/39/EC / STEL 2019/1831/EU / TWA Limit Value - eight hours 2019/1831/EU / STEL Short term exposure limit

Long-term exposure limit (8-hour TWA reference period) GB EH40 / TWA Short-term exposure limit (15-minute reference period) GB EH40 / STEL

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified: NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International

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Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information

The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law. Adhere to the national sanitary and occupational safety regulations when using this product.

This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(2015/830).

Classification of the mixture:

Classification procedure:

| Flam. Liq. 3 | H226 | Based on product data or assessment |
|-------------------|------|-------------------------------------|
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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