

Safety Data Sheet

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



Trade name : 2K-PUR-High-Solid-Lack 5731 (SORTE 5731)
Revision date : 12.10.2020
Print date : 12.10.2020

Version (Revision) : 12.0.0 (11.0.0)

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

1.1 Product identifier

2K-PUR-High-Solid-Lack 5731 (SORTE 5731)

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

Solvent-based coating. Intended purpose see technical data sheet.

Relevant identified uses

Products Category [PC]

Coatings and paints, thinners, paint removers

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

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

Brillux GmbH & Co. KG, Industrielack
www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/city : D-59423 Unna

Telephone : +49 2303 8805-0

Telefax : +49 2303 8805-119

Information contact : E-mail address of the competent person for safety data sheets: sdb@brillux-industrielack.de

1.4 Emergency telephone number

Giftinformationszentrum-Nord (poisons centre), consultation in german and english
Telephone: +49 551 19 24 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

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 pictograms



Flame (GHS02)

Signal word

Warning

Hazard statements

H226

Flammable liquid and vapour.

H412

Harmful 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.

P233

Keep container tightly closed.

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P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P403+P235 Store in a well-ventilated place. Keep cool.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate. May produce an allergic reaction.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

2-METHOXY-1-METHYLETHYL ACETATE ; REACH No. : 01-2119475791-29 ; EC No. : 203-603-9; CAS No. : 108-65-6

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336
Substance with a Community workplace exposure limit

5-METHYLHEXAN-2-ONE ; REACH No. : 01-2119472300-51 ; EC No. : 203-737-8; CAS No. : 110-12-3

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332

XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

PENTANE-2,4-DIONE ; REACH No. : 01-2119458968-15 ; EC No. : 204-634-0; CAS No. : 123-54-6

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Acute Tox. 4 ; H302

2-BUTOXYETHYL ACETATE ; REACH No. : 01-2119475112-47 ; EC No. : 203-933-3; CAS No. : 112-07-2

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H312 Acute Tox. 4 ; H332

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; REACH No. : 01-2119455851-35 ; EC No. : 918-668-5; CAS No. : 64742-95-6

Weight fraction : $\geq 1 - < 2,5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411 (M=1)

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; EC No. : 255-437-1; CAS No. : 41556-26-7

Weight fraction : $\geq 0,25 - < 0,5$ %
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; EC No. : 280-060-4; CAS No. : 82919-37-7

Weight fraction : $\geq 0,1 - < 0,25$ %
Classification 1272/2008 [CLP] : Skin Sens. 1 ; 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

4.1 Description of first aid measures

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General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap Do not wash with: Solvents/Thinner

After eye contact

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

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. No direct artificial respiration to be given by first aider.

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

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder, alcohol resistant foam, carbon dioxide (CO₂), water spray.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂) and pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. 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

Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections

None

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid: Inhalation of vapours or spray/mists Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Never use pressure to empty container. Only allow access to authorised staff.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

Advices on general occupational hygiene

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Floors should be impervious, resistant to liquids and easy to clean. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed.

Hints on joint storage

Storage class (TRGS 510) : 3

Do not store together with

Strong acid, strong alkali, oxidising agent, food and feedingstuffs.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Protect against : Heat. Humidity.

7.3 Specific end use(s)

Solvent-based coating. Intended purpose see technical data sheet.

Industrial sector specific solutions

Note DGUV-Rule 100-500, section 2.29 (processing coating materials). Note DGUV-Rule 109-013.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 62 ppm / 300 mg/m³

Peak limitation : 2(I)

Remark : Y

Version : 29.03.2019

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 50 ppm / 270 mg/m³

Peak limitation : 1(I)

Remark : Y

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Limit value type (country of origin) : STEL (EC)

Limit value : 100 ppm / 550 mg/m³

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Remark : Skin
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 275 mg/m³
Remark : Skin
Version : 20.06.2019

5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 95 mg/m³
Version : 29.03.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 95 mg/m³
Version : 20.06.2019

XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 01.10.1993
Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Version :
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Version :

PENTANE-2,4-DIONE ; CAS No. : 123-54-6
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 30 ppm / 126 mg/m³
Peak limitation : 2(II)
Remark : H, Y
Version : 02.04.2014

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 10 ppm / 65 mg/m³
Peak limitation : 2(I)
Remark : H, Y
Version : 29.03.2019
Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 333 mg/m³
Remark : Skin
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 133 mg/m³
Remark : Skin
Version : 20.06.2019

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 50 ppm / 100 mg/m³
Peak limitation : 2(II)
Remark : AGS
Version :
Limit value type (country of origin) : TWA (D)
Limit value : 25 mg/kg
Version :

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Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 1,5 mg/l
Remark : 5/2013 DFG
Version : 01.10.1993

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Version : 01.10.1993

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts
Limit value : 100 mg/l
Version : 29.03.2019

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Butoxy acetic acid / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts
Limit value : 150 mg/g Kr
Version : 29.03.2019

DNEL-/PNEC-values

DNEL/DMEL

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 102,34 mg/m³

Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 96 mg/kg

Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 48 mg/m³

Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7 mg/kg

Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 480 mg/m³

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6

Limit value type : DNEL/DMEL (Consumer)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 54,8 mg/kg

Limit value type : DNEL/DMEL (Consumer)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 33 mg/m³

Limit value type : DNEL/DMEL (Consumer)

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Exposure route : Oral
Exposure frequency : Long-term
Limit value : 1,67 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 275 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 153,5 mg/kg

5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 8 mg/kg
Safety factor : 1 D
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 95 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 818 mg/m³

XYLENE ; CAS No. : 1330-20-7
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 289 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 77 mg/kg

PENTANE-2,4-DIONE ; CAS No. : 123-54-6
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 84 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 12 mg/kg

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 102 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 133 mg/m³

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Limit value type : DNEL/DMEL (Industrial)

Exposure route : Dermal

Exposure frequency : Short-term

Limit value : 102 mg/kg

Limit value type : DNEL/DMEL (Industrial)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 333 mg/m³

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 25 mg/kg

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 150 mg/m³

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7

Limit value type : DNEL worker (local and systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 2,5 mg/kg

Limit value type : DNEL worker (local and systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 2,35 mg/m³

Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7

Limit value type : DNEL worker (local and systemic)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 2,5 mg/kg

Limit value type : DNEL worker (local and systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 2,35 mg/m³

PNEC

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : PNEC (Aquatic, freshwater)

Exposure route : Water (Including sewage plant)

Limit value : 0,18 mg/l

Limit value type : PNEC (Aquatic, intermittent release)

Exposure route : Water (Including sewage plant)

Limit value : 0,36 mg/l

Limit value type : PNEC (Aquatic, marine water)

Exposure route : Water (Including sewage plant)

Limit value : 0,018 mg/l

Limit value type : PNEC (Sediment, freshwater)

Exposure route : Soil

Limit value : 0,981 mg/kg

Limit value type : PNEC (Sediment, marine water)

Exposure route : Soil

Limit value : 0,0981 mg/kg

Limit value type : PNEC soil

Exposure route : Soil

Limit value : 0,0903 mg/kg

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Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 35,6 mg/l

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,635 mg/l

Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,0635 mg/l

Limit value type : PNEC (Sediment, freshwater)
Exposure route : Soil
Limit value : 3,29 mg/kg

Limit value type : PNEC (Sediment, marine water)
Exposure route : Soil
Limit value : 0,329 mg/kg

Limit value type : PNEC soil
Exposure route : Soil
Limit value : 29 mg/kg

Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l

5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3
Limit value type : PNEC (Industrial)
Exposure route : Water (Including sewage plant)
Limit value : 0,1 mg/l

Limit value type : PNEC (Industrial)
Exposure route : Soil
Limit value : 0,166 mg/kg

XYLENE ; CAS No. : 1330-20-7
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,327 mg/l

Limit value type : PNEC (Sediment, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 12,46 mg/kg

Limit value type : PNEC soil
Exposure route : Soil
Limit value : 2,31 mg/kg

Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 6,58 mg/l

PENTANE-2,4-DIONE ; CAS No. : 123-54-6
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,026 mg/l

Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,0026 mg/l

Limit value type : PNEC (Sediment, freshwater)
Limit value : 0,155 mg/kg

Limit value type : PNEC soil
Limit value : 0,01582 mg/kg

Limit value type : PNEC Soil, Marine water
Limit value : 0,0155 mg/kg

Limit value type : PNEC (Sewage treatment plant)
Limit value : 1,32 mg/l

2-BUTOXYETHYL ACETATE ; CAS No. : 112-07-2

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Limit value type : PNEC (Industrial)
Exposure route : Water (Including sewage plant)
Exposure time : Long-term
Limit value : 0,304 mg/l
Limit value type : PNEC (Industrial)
Exposure route : Water (Including sewage plant)
Exposure time : Short-term
Limit value : 0,5 mg/l
Limit value type : PNEC (Industrial)
Exposure route : Soil
Exposure time : Long-term
Limit value : 0,68 mg/kg
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,0022 mg/l
Limit value type : PNEC Intermittierende Einleitung
Limit value : 0,009 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,00022 mg/l
Limit value type : PNEC (Soil)
Limit value : 0,21 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 1 mg/l
Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7
Limit value type : PNEC (Aquatic, freshwater)
Limit value : 0,0022 mg/l
Limit value type : PNEC Intermittierende Einleitung
Limit value : 0,009 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 0,00022 mg/l
Limit value type : PNEC (Soil)
Limit value : 0,21 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Limit value : 1 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection
goggles (EN 166)

Remark

Note DGUV-Rule 112-192.

Skin protection

Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in section 2, according to the glove manufactures.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note DGUV-Rule 112-195. Note TRGS 401.

Body protection

Required properties : Antistatic, non-melting.

Recommended material : Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

Remark : Note DGUV-Rule 112-189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: Insufficient ventilation, insufficient exhaust or spray application.

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Suitable respiratory protection apparatus

Combination filter mask A2-P2 for short-term work.

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

Other protection measures

Technical measures and the application of suitable work processes have priority over personal protection equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : According to product identification.

Odour

Like solvent.

Safety characteristics

| | | | | |
|---|----------------|---------|-----------|-----------------------|
| Melting point/freezing point : | | | | not applicable |
| Initial boiling point and boiling range : | (1013 hPa) | approx. | 120 - 200 | °C |
| Decomposition temperature : | | | | No data available |
| Flash point : | | > | 23 - 60 | °C |
| Auto-ignition temperature : | | | | No data available |
| Lower explosion limit : | | approx. | 1 | Vol-% |
| Upper explosion limit : | | approx. | 10 | Vol-% |
| Vapour pressure : | (50 °C) | < | 100 | hPa |
| Density : | (20 °C) | | 1,2 - 1,7 | g/cm ³ |
| Solvent separation test : | (20 °C) | < | 3 | % |
| Water solubility : | (20 °C) | | | Not or little soluble |
| pH : | | | | No data available |
| log P O/W : | | | | No data available |
| Flow time : | (20 °C) | > | 100 | s DIN-cup 4 mm |
| Viscosity : | (23 °C) | | | No data available |
| Cinematic viscosity : | (40 °C) | > | 20,5 | mm ² /s |
| Solid content : | | | 70 - 80 | Wt % |
| Odour threshold : | | | | not relevant |
| Relative vapour density : | (20 °C) | | | No data available |
| Vapourisation rate : | | | | No data available |
| Oxidising liquids : | Not oxidising. | | | |

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: Alkali (lye), concentrated. Acid, concentrated. Oxidizing agent.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

| | |
|------------------|--|
| Parameter : | ATEmix calculated |
| Exposure route : | Oral |
| Effective dose : | 25000 mg/kg |
| Parameter : | LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | 10760 mg/kg |
| Parameter : | LD50 (XYLENE ; CAS No. : 1330-20-7) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | 8700 mg/kg |
| Parameter : | LD50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |
| Parameter : | LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 3000 mg/kg |
| Parameter : | LD50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | 5657 mg/kg |
| Parameter : | LD50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7) |
| Exposure route : | Oral |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |

Acute dermal toxicity

| | |
|------------------|--|
| Parameter : | ATEmix calculated |
| Exposure route : | Dermal |
| Effective dose : | 9538 mg/kg |
| Parameter : | LD50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7) |
| Exposure route : | Dermal |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |
| Parameter : | LD50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7) |
| Exposure route : | Dermal |
| Species : | Rat |
| Effective dose : | > 2000 mg/kg |
| Parameter : | LD50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6) |
| Exposure route : | Dermal |

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Species : Rabbit
Effective dose : > 3000 mg/kg
Parameter : LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 14000 mg/kg
Parameter : LD50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Dermal
Species : Guinea pig
Effective dose : > 8 g/kg
Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : 78,4 mg/l
Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 23,4 mg/kg
Exposure time : 4 h
Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Species : Rat
Effective dose : 6350 mg/l
Parameter : LC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Exposure route : Inhalation
Species : Rat
Effective dose : 3813 ppm
Exposure time : 6 h

Corrosion

Irritation to respiratory tract

May cause respiratory irritation.

STOT-single exposure

STOT SE 3

Narcotic effects

Vapours may cause drowsiness and dizziness.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

In case of skin contact

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Lepomis macrochirus (Bluegill)
Effective dose : 0,97 mg/l
Exposure time : 96 h
Method : OECD 203

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Parameter : LC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Lepomis macrochirus (Bluegill)
Effective dose : 0,97 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Fish
Effective dose : 9,2 mg/l
Exposure time : 96 h

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 2,6 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Effective dose : 159 mg/l
Exposure time : 96 h

Parameter : LC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 7,9 mg/l
Exposure time : 96 h
Method : OECD 203

Parameter : LC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 7,9 mg/l
Exposure time : 96 h
Method : OECD 203

Chronic (long-term) fish toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : > 1,3 mg/l
Exposure time : 56 D

Acute (short-term) toxicity to crustacea

Parameter : EC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Daphnia magna (Big water flea)
Effective dose : 20 mg/l
Exposure time : 24 h
Method : OECD 202

Parameter : EC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Daphnia magna (Big water flea)
Effective dose : 20 mg/l
Exposure time : 24 h
Method : OECD 202

Parameter : EC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Daphnia magna (Big water flea)
Effective dose : 3,2 mg/l
Exposure time : 48 h

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna (Big water flea)
Effective dose : 1 mg/l
Exposure time : 24 h
Method : OECD 202

Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Daphnia magna (Big water flea)
Effective dose : > 100 mg/l

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Exposure time : 48 h
Method : OECD 202

Chronic (long-term) toxicity to crustacea

Parameter : NOEC (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Daphnia magna (Big water flea)
Effective dose : 1 mg/l
Exposure time : 21 D
Parameter : NOEC (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Daphnia magna (Big water flea)
Effective dose : 1 mg/l
Exposure time : 21 D
Method : OECD 211
Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia
Effective dose : 1,17 mg/l
Exposure time : 7 D
Parameter : NOEC (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Daphnia magna (Big water flea)
Effective dose : > 91 mg/l
Method : OECD 211

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Desmodesmus subspicatus
Effective dose : 1,68 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Desmodesmus subspicatus
Effective dose : 1,68 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,2 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : ErC50 (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; CAS No. : 64742-95-6)
Species : Pseudokirchneriella subcapitata
Effective dose : 2,6 - 2,9 mg/l
Exposure time : 72 h
Parameter : EC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Species : Daphnia
Effective dose : 20 mg/l
Exposure time : 24 h
Parameter : EC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Species : Daphnia
Effective dose : 20 mg/l
Exposure time : 24 h
Parameter : EC50 (5-METHYLHEXAN-2-ONE ; CAS No. : 110-12-3)
Species : Algae
Effective dose : > 100 mg/l
Exposure time : 72 h

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Chronic (long-term) algae toxicity

Parameter : NOEC (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : 0,44 mg/l
Exposure time : 72 h

Sewage treatment plant

Parameter : EC50 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Inoculum : Municipal
Effective dose : > 100 mg/l
Exposure time : 3 h
Evaluation : Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.
Method : OECD 209
Parameter : EC50 (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Inoculum : Municipal
Effective dose : > 100 mg/l
Exposure time : 3 h
Evaluation : Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.
Method : OECD 209

12.2 Persistence and degradability

Biodegradation

Parameter : DOC reduction (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate ; CAS No. : 41556-26-7)
Inoculum : Degree of elimination
Evaluation parameter : Aerobic
Degradation rate : 38 %
Test duration : 28 D
Evaluation : Not readily biodegradable (according to OECD criteria) Moderately/partially biodegradable.
Method : OECD 301F
Parameter : DOC reduction (Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate ; CAS No. : 82919-37-7)
Inoculum : Degree of elimination
Evaluation parameter : Aerobic
Degradation rate : 38 %
Test duration : 28 D
Evaluation : Not readily biodegradable (according to OECD criteria) Moderately/partially biodegradable.
Method : OECD 301F

The solvent is biodegradable. In accordance with the required stability the product is poorly biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose of waste according to applicable legislation.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

08 01 11* (Waste paint and varnish containing organic solvents or other dangerous substances)

After intended use

Waste codes/waste designations according to EWC/AVV

Uncleaned packaging: 15 01 10* (Packaging containing residues of or contaminated by dangerous substances) Cleaned packaging: 15 01 04 (Metallic packaging)

Other disposal recommendations

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

Note sections 7 and 8.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT

Sea transport (IMDG)

PAINT

Air transport (ICAO-TI / IATA-DGR)

PAINT

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 I · E 1 · Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID.
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 I · E 1 · IMDG 2.3.2.5 (<= 30 l)
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

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None

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 1 - 5 %

Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

15. Restrictions on use

16.2 Abbreviations and acronyms

AwSV: Ordinance on plants for the handling of substances hazardous to water. BGR(I): Rule (Information) from the german employers liability insurance association. DGUV: German Statutory Accident Insurance. EWC: European Waste Catalogue. TRGS: German Technical Rule for Hazardous Substances. VCI: German chemical industry association.

16.3 Key literature references and sources for data

None

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

Calculation method.

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

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |

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H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic 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.
