RITTAL

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.01.2016 Version number 8 Revision: 19.01.2016

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

- · 1.1 Product identifier
- · Trade name: Decklack RAL 7035
- valid for: 2438735Document ID: 5.762
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Lacquer
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: RITTAL GmbH & Co.KG Auf dem Stützelberg D-35745 Herborn Phone: +49 2772 505 0
- Phone: +49 2772 505 0 e-mail: info@rittal.de
- · 1.4 Emergency telephone number:

Informationszentrale gegen Vergiftungen Bonn

Tel.: 0228/19240 (emergency) 0228/287-3-3480 (office) Fax: 0228/287-3-3278

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated

exposure.



GHS09 environment

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or

dizziness.

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· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

×

Xn; Harmful

R20/21-48/20: Harmful by inhalation and in contact with skin. Harmful: danger of serious damage

to health by prolonged exposure through inhalation.

×

Xi; Irritant

R37: Irritating to respiratory system.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R10-66: Flammable. Repeated exposure may cause skin dryness or cracking.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements

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

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

- · Hazard pictograms GHS02, GHS07, GHS08, GHS09
- · Signal word Warning

· Hazard-determining components of labelling:

xylene

Solvent naphtha (petroleum), light arom.

Ethylbenzene

2-butoxyethyl acetate

· Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P405 Store locked up.

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

international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| CAS: 64742-95-6 | Solvent naphtha (petroleum), light arom. | 30-35% |
|--|--|------------------------------|
| EINECS: 265-199-0 | Xn R65; X Xi R37; ¥ N R51/53 R10-66-67 | |
| | ♠ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ STOT SE 3, H335-H336 | |
| CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32 | xylene Xn R20/21-48/20-65; Xi R36/37/38 R10 | 15-20% |
| | ♠ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ↑ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | |
| CAS: 13879-32-8 EINECS: 237-644-9 | [1,1'-[methylenebis(oxyethane-1,2-diyloxy)]bisbenzene N R51/53 | 5-7.5% |
| | 🚯 Aquatic Chronic 2, H411 | |
| CAS: 100-41-4 | Ethylbenzene | 2.5-5% |
| EINECS: 202-849-4 | 🗶 Xn R20-48/20-65; 👸 F R11 | |
| Reg.nr.: 01-2119489370-35 | Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 | |
| CAS: 108-65-6 | 2-methoxy-1-methylethyl acetate | 0.1-<2.5% |
| EINECS: 203-603-9 | R10 | |
| Reg.nr.: 01-2119475791-29 | ♦ Flam. Liq. 3, H226 | |
| CAS: 112-07-2 | 2-butoxyethyl acetate | <i>0.1-</i> <u><</u> 2.5% |
| EINECS: 203-933-3 | 🗶 Xn R20/21/22 | |
| Reg.nr.: 01-2119475112-47 | • Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 | |
| CAS: 41556-26-7 EINECS: 255-437-1 | Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate | 0.1-<1% |
| Reg.nr.: 01-2119491304-40 | Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | |

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| | (Co | ontd. of page 3) |
|--|--|------------------|
| EINECS: 203-625-9 Reg.nr.: 01-2119471310-51 | Repr. Cat. 3 | 0.1-<1% |
| | ♦ Flam. Liq. 2, H225; ♦ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; STOT SE 3, H336 | |
| CAS: 82919-37-7 EINECS: 280-060-4 | Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Xi R43; № N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317 | 0.1-<1% |

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · 6.2 Environmental precautions:

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

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

Do not allow to enter sewers/ surface or ground water.

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· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

| | · Ingredients with limit values that require monitoring at the workplace: | | |
|---|---|--|--|
| Ī | 1330-20-7 xylene | | |
| Ī | WEL Short-term value: 441 mg/m³, 100 ppm | | |
| l | Long-term value: 220 mg/m³, 50 ppm | | |

Sk; BMGV 100-41-4 Ethylbenzene

| WEL | Short-term value: 552 mg/m³, 125 ppm |
|-----|--------------------------------------|
| | Long-term value: 441 mg/m³, 100 ppm |
| | Sk |

108-65-6 2-methoxy-1-methylethyl acetate

| WEL | Short-term value: 548 mg/m³, 100 ppm |
|-----|--------------------------------------|
| | Long-term value: 274 mg/m³, 50 ppm |
| | Sk |

112-07-2 2-butoxyethyl acetate

| WEL | Short-term value: 332 mg/m³, 50 ppm |
|-----|-------------------------------------|
| | Long-term value: 133 mg/m³, 20 ppm |
| | Sk |

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· Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: methyl hippuric acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2 (EN 141, EN 143)

Protection of hands:



Protective gloves (EN 374)

· Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.7 mm

- · Penetration time of glove material Value for the permeation: Level ≤ 6
- · Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid

Colour: According to product specification

Odour: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

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|---|---|
| · Change in condition Melting point/Melting range: Boiling point/Boiling range: | Undetermined. 137 °C |
| · Flash point: | 30 °C (DIN 53213) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | 450 °C (DIN 51794) |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosivair/vapour mixtures are possible. |
| · Explosion limits: Lower: Upper: | 0.7 Vol % 7.5 Vol % |
| · Vapour pressure at 20 °C: | 6.7 hPa |
| Density at 20 °C: Relative density Vapour density Evaporation rate | 1.065 g/cm³ (DIN 53217) Not determined. Not determined. Not determined. |
| · Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/wat | ter): Not determined. |
| · Viscosity: Dynamic: Kinematic at 20 °C: | Not determined. 290 s (DIN 53211/4) |
| · Solvent content: VOC (EC) | 60.06 % |
| Solids content (weight-%): 9.2 Other information | 39.9 % No further relevant information available. |

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if inhaled.

| · LD/LC50 | · LD/LC50 values relevant for classification: | | |
|---|---|--------------------------|--|
| 64742-95-6 Solvent naphtha (petroleum), light arom. | | (petroleum), light arom. | |
| Oral | LD50 | >2000 mg/kg (rat) | |
| Dermal | LD50 | >2000 mg/kg (rab) | |
| 1330-20-7 | 1330-20-7 xylene | | |
| Oral | LD50 | 5251 mg/kg (rat) | |
| Dermal | LD50 | > 5000 mg/kg (rabbit) | |
| Inhalative | LC50/4 h (Dämpfe) | 29 mg/l (rat) | |

- · Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

- · STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation): hazardous for water

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

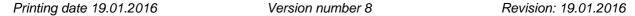
Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

| SECTION 14: Trans | sport information |
|-------------------|------------------------|
| OLUTION 17. ITAIR | poi i illioi illatioli |

| · 14.1 UN-Number · ADR, IMDG, IATA | UN1263 |
|---|--|
| · 14.2 UN proper shipping name · ADR | 1263 PAINT, ENVIRONMENTALLY HAZARDOUS, special provision 640E |
| · IMDG | PAINT (Solvent naphtha, piperidyl sebacates), MARINE POLLUTANT |
| · IATA | Paint |

- · 14.3 Transport hazard class(es)
- · ADR



· Class 3 (F1) Flammable liquids. · Label

· IMDG



· Class 3 Flammable liquids. · Label

·IATA



· Class 3 Flammable liquids.

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|---|--|
| · Label | 3 |
| · 14.4 Packing group · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | Product contains environmentally hazardou substances: piperidyl sebacates, Solvent naphtha |
| · Marine pollutant: | Yes Symbol (fish and tree) |
| · Special marking (ADR): | Symbol (fish and tree) |
| · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: | <i>Warning: Flammable liquids.</i> 30 F-E,S-E |
| · Stowage Category | A |
| · 14.7 Transport in bulk according to An | nex II |
| of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Transport category | 3 |
| · Tunnel restriction code | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · UN "Model Regulation": | UN 1263 PAINT, SPECIAL PROVISION 640E, III, ENVIRONMENTALLY HAZARDOUS |

SECTION 15: Regulatory information

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

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations:

| Class | Share in % |
|-------|------------|
| NK | 50-100 |

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

SECTION 16: Other information

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

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|-----------------------------|---|
| Relevant | phrases |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| R10 | Flammable. |
| R11 | Highly flammable. |
| R20 | Harmful by inhalation. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| | Harmful by inhalation, in contact with skin and if swallowed. |
| | Irritating to eyes, respiratory system and skin. |
| R37 | Irritating to respiratory system. |
| R38 | Irritating to skin. |
| R43 | May cause sensitisation by skin contact. |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R63 | Possible risk of harm to the unborn child. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness. |
| Abbreviat | ions and acronyms: |
| RID: Règlen Concerning t | nent international concernant le transport des marchandises dangereuses par chemin de fer (Regulations he International Transport of Dangerous Goods by Rail) |

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.