

18.07.2023

Kit components

| Product code | Description |
|--------------|-------------|
|--------------|-------------|

| | |
|------------|----------------------------|
| 414 | Double Coat Mat set |
|------------|----------------------------|

Components:

| | |
|-----|-----------------------|
| 413 | Double Coat Mat basis |
|-----|-----------------------|

| | |
|-----|----------------------|
| 409 | Double Coat hardener |
|-----|----------------------|

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 18.07.2023

Version number 39 (replaces version 38)

Revision: 26.06.2023

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


1.1 Product identifier

- Trade name: **Double Coat Mat basis**
- Article number: 413
- UFI: 7DY4-M0F0-000F-17NC
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU19 Building and construction work
- Product category
 - PC9a Coatings and paints, thinners, paint removers
- Process category
 - PROC19 Manual activities involving hand contact
 - PROC7 Industrial spraying
 - PROC10 Roller application or brushing
 - PROC11 Non industrial spraying
- Environmental release category
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
 - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category
 - AC13 Plastic articles
 - AC7 Metal articles
 - AC11 Wood articles
- Application of the substance / the mixture
 - See our technical datasheet for application details of this product.
 - Polyurethane lacquer
- **1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht
Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl
- Further information obtainable from: Research and Development.
- **1.4 Emergency telephone number:** De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl
Office hours: working days from 08:00 to 17:00 hrs.

* 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.



 GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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
- Signal word
 - Warning
- Hazard-determining components of labelling:
 - 2-methoxy-1-methylethyl acetate
 - Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat
- Hazard statements
 - H226 Flammable liquid and vapour.
 - H317 May cause an allergic skin reaction.
 - H336 May cause drowsiness or dizziness.
 - H412 Harmful 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.

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| | |
|----------------|--|
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P261 | Avoid breathing mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| 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.

· Determination of endocrine-disrupting properties

| | | |
|---------|----------|---------|
| 78-93-3 | butanone | List II |
|---------|----------|---------|

*** SECTION 3: Composition/information on ingredients****· 3.2 Mixtures**

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

· Dangerous components:

| | | |
|---|--|----------|
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336 | 25 – 50% |
| CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43 | butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | < 2% |
| CAS: 54839-24-6 EINECS: 259-370-9 Index number: 603-177-00-8 Reg.nr.: 01-2119475116-39 | 2-ethoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336 | < 2% |
| EC number: 915-687-0 Reg.nr.: 01-2119491304-40 | Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317 | 0.5 – 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: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air and to be sure call for a doctor.
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 or powder. Fight larger fires with alcohol resistant foam.

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- 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: No special measures required.

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.
- **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 section 13. Ensure adequate ventilation.
- **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: Store material in original, tightly closed containers in a cool, well-ventilated area in accordance with applicable (local) regulations. Depending on total volume stored, the storage area should comply with PGS15.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

| | | |
|---|--|--------------------------------|
| · Ingredients with limit values that require monitoring at the workplace: | | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| IOELV | Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin | |
| 78-93-3 butanone | | |
| IOELV | Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm | |
| · DNEL (Derived No Effect Level) for workers | | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Dermal | Long-term - systemic effects, worker | 153.5 mg/kg bw/day (Worker) |
| Inhalative | Long-term - systemic effects, worker | 275 mg/m ³ (Worker) |

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| 78-93-3 butanone | | |
|--|--|---|
| Dermal | Long-term - systemic effects, worker | 1,161 mg/kg bw/day (Worker) |
| Inhalative | Long-term - systemic effects, worker | 600 mg/m ³ (Worker) |
| 54839-24-6 2-ethoxy-1-methylethyl acetate | | |
| Dermal | Long-term - systemic effects, worker | 103 mg/kg bw/day (Worker) |
| Inhalative | Acute - systemic effects, worker | 608 mg/m ³ (Worker) |
| | Long-term - systemic effects, worker | 302 mg/m ³ (Worker) |
| Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat | | |
| Dermal | Acute - systemic effects, worker | 2.5 mg/kg bw/day (Worker) |
| Inhalative | Acute - systemic effects, worker | 2.35 mg/m ³ (Worker) |
| | Long-term - systemic effects, worker | 2.35 mg/m ³ (Worker) |
| · DNEL (Derived No Effect Level) for the general population | | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | Long-term - systemic effects, general population | 1.67 mg/kg bw/day (General population) |
| Dermal | Long-term - systemic effects, general population | 54.8 mg/kg bw/day (General population) |
| Inhalative | Long-term - systemic effects, general population | 33 mg/m ³ (General population) |
| 78-93-3 butanone | | |
| Oral | Long-term - systemic effects, general population | 31 mg/kg bw/day (General population) |
| Dermal | Long-term - systemic effects, general population | 412 mg/kg bw/day (General population) |
| Inhalative | Long-term - systemic effects, general population | 106 mg/m ³ (General population) |
| 54839-24-6 2-ethoxy-1-methylethyl acetate | | |
| Oral | Long-term - systemic effects, general population | 13.1 mg/kg bw/day (General population) |
| Dermal | Long-term - systemic effects, general population | 62 mg/kg bw/day (General population) |
| Inhalative | Acute - systemic effects, general population | 365 mg/m ³ (General population) |
| | Long-term - systemic effects, general population | 181 mg/m ³ (General population) |
| Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat | | |
| Oral | Acute - systemic effects, general population | 1.25 mg/kg bw/day (General population) |
| | Long-term - systemic effects, general population | 1.25 mg/kg bw/day (General population) |
| Dermal | Acute - systemic effects, general population | 1.25 mg/kg bw/day (General population) |
| | Long-term - systemic effects, general population | 1.25 mg/kg bw/day (General population) |
| Inhalative | Acute - systemic effects, general population | 0.58 mg/m ³ (General population) |
| | Long-term - systemic effects, general population | 0.58 mg/m ³ (General population) |
| · PNEC (Predicted No Effect Concentration) values | | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Aquatic compartment - freshwater | | 0.635 mg/l (Freshwater) |
| Aquatic compartment - marine water | | 0.0635 mg/l (Marine water) |
| Aquatic compartment - water, intermittent releases | | 6.35 mg/l (Intermittent release water) |
| Aquatic compartment - sediment in freshwater | | 3.29 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | | 0.329 mg/kg sed dw (Marine water) |
| Terrestrial compartment - soil | | 0.29 mg/kg dw (Soil) |
| Sewage treatment plant | | 100 mg/l (stp) |
| 78-93-3 butanone | | |
| Aquatic compartment - freshwater | | 55.8 mg/l (Freshwater) |
| Aquatic compartment - marine water | | 55.8 mg/l (Marine water) |
| Aquatic compartment - sediment in freshwater | | 284.74 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | | 287.7 mg/kg sed dw (Sediment marine water) |
| Terrestrial compartment - soil | | 22.5 mg/kg dw (Soil) |
| 54839-24-6 2-ethoxy-1-methylethyl acetate | | |
| Aquatic compartment - freshwater | | 1.3 mg/l |
| Aquatic compartment - marine water | | 0.13 mg/l |
| Aquatic compartment - sediment in freshwater | | 6.4 mg/kg sed dw |

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| | |
|--|---|
| Aquatic compartment - sediment in marine water | 1.34 mg/kg sed dw |
| Terrestrial compartment - soil | 1.34 mg/kg dw |
| Sewage treatment plant | 62.5 mg/l |
| Reactionmass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacat and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacat | |
| Aquatic compartment - freshwater | 0.0022 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.00022 mg/l (Marine water) |
| Aquatic compartment - water, intermittent releases | 0.009 mg/l (Intermittent release water) |
| Aquatic compartment - sediment in freshwater | 1.05 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | 0.11 mg/kg sed dw (Sediment marine water) |
| Terrestrial compartment - soil | 0.21 mg/kg dw (Soil) |
| Sewage treatment plant | 1 mg/l (stp) |

- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- 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.
- Hand protection Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Recommended thickness of the material: ≥ 0.3 mm
- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves
Strong material gloves
- Eye/face protection Tightly sealed goggles

*** SECTION 9: Physical and chemical properties**

| | |
|--|------------------------------------|
| · 9.1 Information on basic physical and chemical properties | |
| · General Information | |
| · Physical state | Fluid |
| · Colour: | According to product specification |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | 100 °C |
| · Flammability | Flammable. |
| · Lower and upper explosion limit | |
| · Lower: | 1.5 Vol % |

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| | |
|---|---|
| · Upper: | 10.8 Vol % |
| · Flash point: | 44 °C (Pensky Martens, ASTM D93) |
| · Auto-ignition temperature: | 315 °C |
| · Decomposition temperature: | Not determined. |
| · pH at 20 °C | 7 |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure at 20 °C: | 3.4 hPa |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.357 g/cm ³ (DIN 51757, ASTM D 1298) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · 9.2 Other information | |
| · Appearance: | |
| · Form: | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · Solvent content: | |
| · Organic solvents: | 37.0 % |
| · VOC: | |
| · VOC (2004/42/EC): | 36.98 % |
| · Solids content: | 67.7 % |
| · Change in condition | |
| · Evaporation rate | Not determined. |
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Flammable liquid and vapour. |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

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.

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— EU —

Trade name: Double Coat Mat basis

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

*** SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

| Components | Type | Value | Species |
|---|------|-------------|----------|
| 108-65-6 2-methoxy-1-methylethyl acetate | | | |
| Oral | LD50 | 8,532 mg/kg | (Rat) |
| 78-93-3 butanone | | | |
| Oral | LD50 | 3,300 mg/kg | (Rat) |
| Dermal | LD50 | 5,000 mg/kg | (Rabbit) |

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- 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 drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

| | | |
|-----------------------------------|----------|---------|
| · Endocrine disrupting properties | | |
| 78-93-3 | butanone | List II |

SECTION 12: Ecological information

- **12.1 Toxicity**

- Aquatic toxicity: No further relevant information available.

| Type of test | Effective concentration | Method | Assessment |
|---|-------------------------|-----------|------------|
| 108-65-6 2-methoxy-1-methylethyl acetate | | | |
| Inhalative | LC50/4 h | 35.7 mg/l | (Rat) |

- **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.

- **12.5 Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

- **12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse effects**

- Remark: Harmful to fish

- Additional ecological information:

- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

*** 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 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |

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| | |
|-----------|---|
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| HP3 | Flammable |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP14 | Ecotoxic |

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

SECTION 14: Transport information

| | |
|--|--|
| · 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA | UN1263 |
| · 14.2 UN proper shipping name · ADR/RID/ADN · IMDG, IATA | 1263 PAINT PAINT |
| · 14.3 Transport hazard class(es) · ADR/RID/ADN · Class · Label | 3 (F1) Flammable liquids. 3 |
| · IMDG, IATA · Class · Label | 3 Flammable liquids. 3 |
| · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA | III |
| · 14.5 Environmental hazards: · Marine pollutant: | No |
| · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category | Warning: Flammable liquids. 30 F-E,S-E A |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | |
| · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · Transport category · Tunnel restriction code · Remarks: | 3 D/E In packsize up to 450 liter exempt from ADR according ADR 2.2.3.1.5. |
| · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · Remarks: | In packaging up to 30 litres exempt according to IMDG 2.3.2.5. |
| · UN "Model Regulation": | UN 1263 PAINT, 3, III |

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.

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- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

| | | |
|----------|----------|---|
| 78-93-3 | butanone | 3 |
| 108-88-3 | toluene | 3 |

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

| | | |
|----------|----------|---|
| 78-93-3 | butanone | 3 |
| 108-88-3 | toluene | 3 |

· National regulations:

· Technical instructions (air):

| Class | Share in % |
|-------|------------|
| NK | 37.0 |

· **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.

- Relevant phrases
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - EUH066 Repeated exposure may cause skin dryness or cracking.

- Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

| | |
|--|--|
| Flammable liquids | On basis of test data |
| Skin sensitisation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

- Department issuing SDS: Research and Development
- Contact: Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijsjel-coatings.nl
- Date of previous version: 28.01.2022
- Version number of previous version: 38
- Abbreviations and acronyms:
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ICAO: International Civil Aviation Organisation
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods

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Revision: 26.06.2023

Trade name: Double Coat Mat basis

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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 List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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 – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Literature data and/or investigation reports are available through the manufacturer.

- Sources:
- * Data compared to the previous version altered.

**Safety data sheet
according to 1907/2006/EC, Article 31**

Printing date 18.07.2023

Version number 105 (replaces version 104)

Revision: 03.07.2023

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


1.1 Product identifier

- Trade name: **Double Coat hardener**
- Article number: 409
- UFI: CPJ4-Q097-P006-4QDT
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU19 Building and construction work
- Product category
 - PC9a Coatings and paints, thinners, paint removers
- Process category
 - PROC19 Manual activities involving hand contact
 - PROC7 Industrial spraying
 - PROC10 Roller application or brushing
 - PROC11 Non industrial spraying
- Environmental release category
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
 - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- Article category
 - AC13 Plastic articles
 - AC7 Metal articles
 - AC11 Wood articles
- Application of the substance / the mixture
 - See our technical datasheet for application details of this product.
 - Isocyanate hardener for polyurethanes
- **1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier: De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht
Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl
- Further information obtainable from: Research and Development.
- **1.4 Emergency telephone number:** De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl
Office hours: working days from 08:00 to 17:00 hrs.

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.



 GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
 - The product is classified and labelled according to the CLP regulation.
- Hazard pictograms
 -  
 - GHS02 GHS07
- Signal word
 - Warning
- Hazard-determining components of labelling:
 - Hexamethyleen-1,6-diisocyanaat homopolymeer
 - 2-methoxy-1-methylethyl acetate
 - hexamethylene-di-isocyanate
 - 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
- Hazard statements
 - H226 Flammable liquid and vapour.
 - H332 Harmful if inhaled.
 - H317 May cause an allergic skin reaction.
 - H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- Precautionary statements
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.

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Trade name: Double Coat hardener

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| | |
|----------------|--|
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof [electrical/ventilating/lighting] equipment. |
| P261 | Avoid breathing mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· Additional information: As from 24 August 2023 adequate training is required before industrial or professional use.

· 2.3 Other hazards

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

*** SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

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

· Dangerous components:

| | | |
|--|--|------------|
| CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119488934-20 | Hexamethyleen-1,6-diisocynaat homopolymeer ⚠ Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 | 50 – 100% |
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336 | 25 – 50% |
| CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46 | ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | < 2% |
| CAS: 4098-71-9 EINECS: 223-861-6 Index number: 615-008-00-5 Reg.nr.: 01-2119490408-31 | 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate ⚠ Acute Tox. 3, H331; ⚠ Resp. Sens. 1, H334; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 % | 0.1 – 0.5% |
| CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37 | hexamethylene-di-isocyanate ⚠ Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Resp. Sens. 1, H334; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 % | 0.1 – 0.5% |

· 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: Immediately remove any clothing soiled by the product. 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 and to be sure call for a doctor. 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.

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- **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 or powder. Fight larger fires with alcohol resistant foam.
- 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 to enter sewers/ surface or ground water.
- **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 section 13.
Ensure adequate ventilation.
- **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: Store material in original, tightly closed containers in a cool, well-ventilated area in accordance with applicable (local) regulations. Depending on total volume stored, the storage area should comply with PGS15.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 5 - 30 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

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

| | |
|-------|--|
| IOELV | Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin |
|-------|--|

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| | | |
|--|--|--|
| 141-78-6 ethyl acetate | | |
| IOELV | Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm | |
| · DNEL (Derived No Effect Level) for workers | | |
| 28182-81-2 Hexamethyleen-1,6-diisocynaat homopolymeer | | |
| Inhalative | Acute - local effects, worker | 1 mg/m ³ (Worker) |
| | Long-term - local effects, worker | 0.5 mg/m ³ (Worker) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Dermal | Long-term - systemic effects, worker | 153.5 mg/kg bw/day (Worker) |
| Inhalative | Long-term - systemic effects, worker | 275 mg/m ³ (Worker) |
| 141-78-6 ethyl acetate | | |
| Dermal | Long-term - systemic effects, worker | 63 mg/kg bw/day (Worker) |
| Inhalative | Acute - systemic effects, worker | 1,468 mg/m ³ (Worker) |
| | Acute - local effects, worker | 1,468 mg/m ³ (Worker) |
| | Long-term - systemic effects, worker | 34 mg/m ³ (Worker) |
| | Long-term - local effects, worker | 734 mg/m ³ (Worker) |
| 822-06-0 hexamethylene-di-isocyanate | | |
| Inhalative | Acute - systemic effects, worker | 0.07 mg/m ³ (Worker) |
| | Long-term - systemic effects, worker | 0.035 mg/m ³ (Worker) |
| | Long-term - local effects, worker | 0.035 mg/m ³ (Worker) |
| · DNEL (Derived No Effect Level) for the general population | | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | Long-term - systemic effects, general population | 1.67 mg/kg bw/day (General population) |
| Dermal | Long-term - systemic effects, general population | 54.8 mg/kg bw/day (General population) |
| Inhalative | Long-term - systemic effects, general population | 33 mg/m ³ (General population) |
| 141-78-6 ethyl acetate | | |
| Oral | Long-term - systemic effects, general population | 4.5 mg/kg bw/day (General population) |
| Dermal | Long-term - systemic effects, general population | 37 mg/kg bw/day (General population) |
| Inhalative | Acute - systemic effects, general population | 734 mg/m ³ (General population) |
| | Acute - local effects, general population | 734 mg/m ³ (General population) |
| | Long-term - systemic effects, general population | 367 mg/m ³ (General population) |
| | Long-term - local effects, general population | 367 mg/m ³ (General population) |
| · PNEC (Predicted No Effect Concentration) values | | |
| 28182-81-2 Hexamethyleen-1,6-diisocynaat homopolymeer | | |
| Aquatic compartment - freshwater | | 0.199 mg/l (Freshwater) |
| Aquatic compartment - marine water | | 0.0199 mg/l (Marine water) |
| Aquatic compartment - sediment in freshwater | | 44,551 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | | 4,455 mg/kg sed dw (Sediment marine water) |
| Terrestrial compartment - soil | | 8,884 mg/kg dw (Soil) |
| Sewage treatment plant | | 100 mg/l (stp) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Aquatic compartment - freshwater | | 0.635 mg/l (Freshwater) |
| Aquatic compartment - marine water | | 0.0635 mg/l (Marine water) |
| Aquatic compartment - water, intermittent releases | | 6.35 mg/l (Intermittent release water) |
| Aquatic compartment - sediment in freshwater | | 3.29 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | | 0.329 mg/kg sed dw (Marine water) |
| Terrestrial compartment - soil | | 0.29 mg/kg dw (Soil) |
| Sewage treatment plant | | 100 mg/l (stp) |
| 141-78-6 ethyl acetate | | |
| Aquatic compartment - freshwater | | 0.26 mg/l (Freshwater) |
| Aquatic compartment - marine water | | 0.026 mg/l (Marine water) |
| Aquatic compartment - sediment in freshwater | | 0.34 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | | 0.034 mg/kg sed dw (Sediment marine water) |

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| | |
|--|---|
| Terrestrial compartment - soil Sewage treatment plant | 0.22 mg/kg dw (Soil) 650 mg/l (stp) |
| 822-06-0 hexamethylene-di-isocyanate | |
| Aquatic compartment - freshwater | 0.0774 mg/l (Freshwater) |
| Aquatic compartment - marine water | 0.00774 mg/l (Marine water) |
| Aquatic compartment - sediment in freshwater | 0.01334 mg/kg sed dw (Sediment freshwater) |
| Aquatic compartment - sediment in marine water | 0.001334 mg/kg sed dw (Sediment marine water) |
| Terrestrial compartment - soil | 0.0026 mg/kg dw (Soil) |
| Sewage treatment plant | 8.42 mg/l (stp) |

- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- 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.
- Hand protection Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Recommended thickness of the material: ≥ 0.3 mm
- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- Not suitable are gloves made of the following materials: Leather gloves
Strong material gloves
- Eye/face protection Tightly sealed goggles

* **SECTION 9: Physical and chemical properties**

| | |
|--|----------------------------------|
| · 9.1 Information on basic physical and chemical properties | |
| · General Information | |
| · Physical state | Fluid |
| · Colour: | Colourless |
| · Odour: | Solvent-like |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | 77 °C |
| · Flammability | Flammable. |
| · Lower and upper explosion limit | |
| · Lower: | 1.5 Vol % |
| · Upper: | 10.8 Vol % |
| · Flash point: | 45 °C (Pensky Martens, ASTM D93) |
| · Auto-ignition temperature: | 315 °C |

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| | |
|--|--|
| <ul style="list-style-type: none"> · Decomposition temperature: Not determined. · pH at 20 °C: 7 · Viscosity: · Kinematic viscosity: Not determined. · Dynamic at 20 °C: 740 mPas (Brookfield, ASTM D1544) · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value): Not determined. · Vapour pressure at 20 °C: 3.4 hPa · Density and/or relative density · Density at 20 °C: 1.057 g/cm³ (DIN 51757, ASTM D 1298) · Relative density: Not determined. · Vapour density: Not determined. | |
| <ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Solvent content: · Organic solvents: 38.4 % · VOC: · VOC (2004/42/EC): 38.41 % · Solids content: 60.7 % · Change in condition · Evaporation rate: Not determined. | |
| <ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives: Void · Flammable gases: Void · Aerosols: Void · Oxidising gases: Void · Gases under pressure: Void · Flammable liquids: Flammable liquid and vapour. · Flammable solids: Void · Self-reactive substances and mixtures: Void · Pyrophoric liquids: Void · Pyrophoric solids: Void · Self-heating substances and mixtures: Void · Substances and mixtures, which emit flammable gases in contact with water: Void · Oxidising liquids: Void · Oxidising solids: Void · Organic peroxides: Void · Corrosive to metals: Void · Desensitised explosives: Void | |

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: | No dangerous decomposition products known. |

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Revision: 03.07.2023

Trade name: Double Coat hardener

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*** SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Harmful if inhaled.
- LD/LC50 values relevant for classification:

| Components | Type | Value | Species |
|---|------|---------------|----------|
| ATE (Acute Toxicity Estimates) | | | |
| Dermal | LD50 | 206,171 mg/kg | (Rat) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | | |
| Oral | LD50 | 8,532 mg/kg | (Rat) |
| 141-78-6 ethyl acetate | | | |
| Oral | LD50 | 5,620 mg/kg | (Rabbit) |
| 822-06-0 hexamethylene-di-isocyanate | | | |
| Oral | LD50 | 738 mg/kg | (Rat) |
| Dermal | LD50 | 593 mg/kg | (Rat) |

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

| |
|------------------------------------|
| · Endocrine disrupting properties |
| None of the ingredients is listed. |

*** SECTION 12: Ecological information**

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

| Type of test | Effective concentration | Method | Assessment |
|---|-------------------------|------------|------------|
| ATE (Acute Toxicity Estimates) | | | |
| Inhalative | LC50/4 h | 17.9 mg/l | |
| 108-65-6 2-methoxy-1-methylethyl acetate | | | |
| Inhalative | LC50/4 h | 35.7 mg/l | (Rat) |
| 141-78-6 ethyl acetate | | | |
| Inhalative | LC50/4 h | 1,600 mg/l | (Rat) |

· 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.

· 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

- Additional ecological information:

- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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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 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| HP3 | Flammable |
| HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP13 | Sensitising |

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

SECTION 14: Transport information

| | |
|---|--|
| 14.1 UN number or ID number | |
| · ADR/RID/ADN, IMDG, IATA | UN1263 |
| 14.2 UN proper shipping name | |
| · ADR/RID/ADN | 1263 PAINT |
| · IMDG, IATA | PAINT |
| 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN | |
| · Class | 3 (F1) Flammable liquids. |
| · Label | 3 |
| ----- | |
| · IMDG, IATA | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | III |
| 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| 14.6 Special precautions for user | |
| · Hazard identification number (Kemler code): | Warning: Flammable liquids. 30 |
| · EMS Number: | F-E, <u>S</u> -E |
| · Stowage Category | A |
| 14.7 Maritime transport in bulk according to IMO instruments | |
| Not applicable. | |
| · Transport/Additional information: | |
| ----- | |
| · ADR/RID/ADN | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · Transport category | 3 |
| · Tunnel restriction code | D/E |
| ----- | |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 1263 PAINT, 3, III |

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Trade name: Double Coat hardener

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* 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 P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 74

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

· Technical instructions (air):

| Class | Share in % |
|-------|------------|
| I | 0.7 |
| NK | 38.4 |

· 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.

- Relevant phrases

| | |
|--------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH204 | Contains isocyanates. May produce an allergic reaction. |

- Classification according to Regulation (EC) No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.07.2023

Version number 105 (replaces version 104)

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Trade name: Double Coat hardener

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| | |
|---|--|
| Flammable liquids | On basis of test data |
| Acute toxicity - inhalation Skin sensitisation Specific target organ toxicity (single exposure) | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008. |

- Department issuing SDS:
- Contact:
- Date of previous version:
- Version number of previous version:
- Abbreviations and acronyms:

Research and Development

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05.07.2022

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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 – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

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

Literature data and/or investigation reports are available through the manufacturer.

- Sources:
- * Data compared to the previous version altered.