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|--|---|---|
| SECTION 1: Identification of the | substance/mixture and of the company/undertaking | |
| • <u>1.1 Product identifier</u> • Trade name: | Hardener for Turbo Gloss 2K-UHS Clearcoat 2:1 | |
| | | |
| Article number: 1.2 Relevant identified uses of | 70603, 70605 | |
| the substance or mixture and | | |
| uses advised against | No further relevant information available. | |
| Application of the substance / the mixture | Hardening agent/ Curing agent | |
| · 1.3 Details of the supplier of the | safety data sheet | |
| Manufacturer/Supplier: | AKEMI chemisch technische Spezialfabrik GmbH | Tel. +49(0)911-642960 |
| | Lechstrasse 28 D 90451 Nürnberg | Fax. +49(0)911-644456 e-mail info@akemi.de |
| Eurther information obtainable | | |
| from: | Laboratory | |
| 1.4 Emergency telephone number: | Product Safety Department AKEMI chemisch technisch | ne Spezialfabrik GmbH |
| | Tel. +49(0)911-64296-59 | |
| | Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m. | |
| | Friday from 07:30 a.m. to $13:30$ p.m. | |
| | +44 (171) 635 91 91 | |
| | National Poison Inform. Centre | |
| | Medical Toxicology Unit Avalonley Road | |
| | London SE14 5ER | |
| SECTION 2: Hazards identification | ce or mixture | |
| GHS02 flame | | |
| Flam. Liq. 3 H226 Flamma | ble liquid and vapour. | |
| GHS07 | | |
| Acute Tox. 4 H332 Harmful | if inhaled. | |
| - | use an allergic skin reaction. | |
| STOT SE 3 H335-H336 May cau | use respiratory irritation. May cause drowsiness or dizzir | ness. |
| 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 | | |
| | | |
| | \checkmark \checkmark | |
| | GHS02 GHS07 | |
| Signal word | Warning | |
| Hazard-determining components | | |
| of labelling: | aliphatic polyisocyanate | |
| Hazard statements | n-butyl acetate H226 Flammable liquid and vapour. | |
| | H332 Harmful if inhaled. | |
| | | (Contd. on page 2) |



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| | | (Contd. of page 1) |
|--|-----------------|---|
| | 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. |
| | P103 | Read label before use. |
| | P210 | Keep away from heat, hot surfaces, sparks, open flames and |
| | | other ignition sources. No smoking. |
| | P261 | Avoid breathing vapours. |
| | P280 | Wear protective gloves / eye protection. |
| | P303+P361+P35 | 3 IF ON SKIN (or hair): Take off immediately all contaminated |
| | | clothing. Rinse skin with water [or shower]. |
| | P304+P312 | IF INHALED: Call a POISON CENTER/doctor if you feel |
| | | unwell. |
| | P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| | P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| | P405 | Store locked up. |
| | P501 | Dispose of contents/container in accordance with local/ regional/national/international regulations. |
| Additional information: | EUH066 Repeate | d exposure may cause skin dryness or cracking. |
| · 2.3 Other hazards | | |
| Results of PBT and vPvB assess | nent | |
| • <u>PBT:</u> | Not applicable. | |
| · vPvB: | Not applicable. | |

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

| Dangerous components: | | |
|---|---|----------|
| EC number: 931-275-8 | aliphatic polyisocyanate | 50-100% |
| Reg.nr.: 01-2119485796-17-0000 | 🚯 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 | |
| CAS: 123-86-4 | n-butyl acetate | 12.5-25% |
| EINECS: 204-658-1 | 🚸 Flam. Liq. 3, H226 | 1 |
| Index number: 607-025-00-1 | STOT SE 3, H336 | |
| Reg.nr.: 01-2119485493-29 | | |
| CAS: 108-65-6 | 2-methoxy-1-methylethyl acetate | 12.5-25% |
| EINECS: 203-603-9 | 📀 Flam. Liq. 3, H226 |] |
| Index number: 607-195-00-7 | | |
| Reg.nr.: 01-211947591-29 | | |
| 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: Take affected persons out into the fresh air. Position and transport stably in side position. · 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: If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water. Then consult a · After eye contact: doctor. · After swallowing: If symptoms persist consult doctor. (Contd. on page 3)



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(Contd. of page 2) 4.2 Most important symptoms and effects, both acute and Breathing difficulty delayed Headache Dizziness Dizziness Nausea Allergic reactions · Information for doctor: Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g) a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma. b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis. Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously. Acute health risks in isocyanate exposition - dermal effect: Isocyanate contact with skin cause in dependence of the exposition duration to severe skin irritation and occasionally to contact dermatitis. - effect on eyes: Fumes in concentration above the tolerable working place limit value, aerosols and dust promotes lacrimation and eye burning. Isocyanate eye splashs may cause damages of cornea. - respiratory effect: In exposition of isocyanate fumes and in dependence of their concentration severe nasal irritation and pharyngitis with subsequent damage of upper and lower respiratory tract may occur. Most frequently observed symptoms are xerosis of the throat, chest pressure often accompanied by headache, respiratory malfunction and breathlessness. Long-term inhaling of high isocanate concentrations sometimes can result in a pulmonary edema. Chronical health risks in isocyanate exposition: Recurrent exceedings of permitted working place limit values can cause chronical respiratory diseases like bronchitis and worsening of respiratory function. In sensitive / disposed subjects sensibilization and hypersensitization may occur leading to asthmatic dysfunction (obstructive respiratory disease). · Hazards Danger of impaired breathing. · 4.3 Indication of any immediate medical attention and special If swallowed, gastric irrigation with added, activated carbon. treatment needed If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

<u>5.1 Extinguishing media</u>

| Suitable extinguishing agents: | CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
|---|--|
| For safety reasons unsuitable | |
| extinguishing agents: | Water with full jet |
| 5.2 Special hazards arising from | |
| the substance or mixture | Formation of toxic gases is possible during heating or in case of fire. |
| | In case of fire, the following can be released: |
| | Carbon monoxide (CO) |
| | Nitrogen oxides (NOx) |
| | Hydrogen cyanide (HCN) |
| | Under certain fire conditions, traces of other toxic gases cannot be excluded. |
| 5.3 Advice for firefighters | |
| Protective equipment: | Wear self-contained respiratory protective device. |
| i | |

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according to 1907/2006/EC, Article 31

Trade name: Hardener for Turbo Gloss 2K-UHS Clearcoat 2:1 (Contd. of page 3) Do not inhale explosion gases or combustion gases. Wear fully protective suit. · Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system. **SECTION 6: Accidental release measures** · 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol. 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). 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 Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. · Information about fire - and explosion protection: Highly volatile, flammable constituents are released during processing. 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 oxidising agents. Store away from foodstuffs. Further information about storage conditions: Store receptacle in a well ventilated area. Keep container tightly sealed. · 7.3 Specific end use(s) No further relevant information available.

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| | ner for Turbo Gloss 2k | |
|-------------------------------------|--------------------------------------|--|
| | | (Contd. of page |
| SECTION 8: Exp | oosure controls/persor | al protection |
| Additional inform | ation about | |
| design of technic | | rther data; see item 7. |
| 8.1 Control para | ameters | |
| | | nonitoring at the workplace: |
| 123-86-4 n-buty | l acetate | |
| | value: 966 mg/m ³ , 200 j | |
| - | value: 724 mg/m ³ , 150 p | |
| | noxy-1-methylethyl ace | |
| | value: 548 mg/m ³ , 100 | |
| Long-term Sk | value: 274 mg/m ³ , 50 pp | om |
| | | |
| DNELs | oovonato | |
| aliphatic polyis | - | mg/m³ Air (ARB) |
| | · · · · | 5 () |
| | (Langzeit-wiederholt) | |
| PNECs | | |
| aliphatic polyis | - | |
| PINEC (wassrig) | 38.28 mg/l (KA) | |
| | 0.0127 mg/l (MW) | |
| | 0.127 mg/l (SW) | |
| | 1.27 mg/l (WAS) | |
| PNEC (fest) | 53,200 mg/kg Trockeng | |
| | 26,670 mg/kg Trockeng | |
| Additional inform | 266,700 mg/kg Trocken | gew (SWS) ists valid during the making were used as basis. |
| | | 1313 Valiu Uutitty lite Ittaniity Wele USEU as Dasis. |
| 8.2 Exposure co Personal protect | | |
| General protective | | |
| measures: | Do no | ot eat, drink, smoke or sniff while working. |
| | | skin protection cream for skin protection. |
| | | n skin thoroughly immediately after handling the product. ediately remove all soiled and contaminated clothing |
| | | h hands before breaks and at the end of work. |
| | Do no | ot inhale gases / fumes / aerosols. |
| Respiratory protection: | | term filter device: |
| | | A/P2 se of brief exposure or low pollution use respiratory filter device. In case |
| | | sive or longer exposure use self-contained respiratory protective device. |
| Protection of har | nds: Preve | entive skin protection by use of skin-protecting agents is recommended. |
| | After | use of gloves apply skin-cleaning agents and skin cosmetics. |
| | | Protective doves |
| | | 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 |
| | | given for the product/ the preparation/ the chemical mixture. |
| | | Skin protection agent recommendation for preventive skin shelter application and combination of protective gloves: |
| | | (Contd. on page |

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| | (Contd. of page |
| | STOKO EMULSION (http://www.stoko.com) |
| | Skin protection recommendation for skin cleaning after produ |
| | handling: |
| | FRAPANTOL (http://www.stoko.com) |
| | Skin protection agent recommendation for skin aftercare: |
| | STOKO VITAN (http://www.stoko.com) |
| | The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derive decree EN374, respectively, e.g. the above listed protection glo type. The mentioned permeation times' data were generated as verified with meterial complex of the recommended protection glo |
| | verified with material samples of the recommended protection glo type in the scope of laboratory anylyses of the company KCL GmbH compliance with EN374. |
| | This recommendation refers exclusively to the material safety da |
| | sheet referenced product delivered by Akemi and the indicated field |
| | application. In case of product dilution or in case of mixture w |
| | different substances or chemicals, and in condition of EN374 deviati the producer of CE-approved protection gloves must be contacted |
| | detailed information (e.g., KCL GmbH, Germany, 36124 Eichenze |
| Material of gloves | internet: http://www.kcl.de). Butyl rubber, BR |
| waterial of gloves | The selection of the suitable gloves does not only depend on the material, b |
| | also on further marks of quality and varies from manufacturer to manufactur |
| | As the product is a preparation of several substances, the resistance of t |
| | glove material can not be calculated in advance and has therefore to be check |
| | prior to the application. |
| Penetration time of glove material | Value for the permeation: Level \leq 5, 480 min |
| | The exact break trough time has to be found out by the manufacturer of t |
| | protective gloves and has to be observed. |
| • For the permanent contact gloves | |
| made of the following materials are | |
| suitable: | Butyl rubber, BR |
| | Butoject (KCL, Art_No. 897, 898) |
| As protection from splashes gloves | |
| made of the following materials are | |
| suitable: | Butyl rubber, BR |
| | Butoject (KCL, Art_No. 897, 898) Nitrile rubber, NBR |
| | Camatril (KCL, 730, 731, 732, 733) |
| Not suitable are gloves made of | Canlatin (NCL, 750, 751, 752, 755) |
| the following materials: | Leather gloves |
| | Strong material gloves |
| Eye protection: | |
| | Tightly sealed goggles |
| Body protection: | Protective work clothing |
| SECTION 9: Physical and chemic | cal properties |
| • 9.1 Information on basic physica | I and chemical properties |
| General Information | |
| • <u>Appearance:</u> Form: | Fluid |
| Colour: | According to product specification |
| <u>Colour.</u> Odour: | Characteristic |

Characteristic · Odour:

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Trade name: Hardener for Turbo Gloss 2K-UHS Clearcoat 2:1 (Contd. of page 6) · Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 124-128 °C 30 °C Flash point: 315 °C · Ignition temperature: · Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Explosion limits: Lower: 1.5 Vol % Upper: 10.8 Vol % · Vapour pressure at 20 °C: 10.7 hPa · Density at 20 °C: 1,04 g/cm3 · Solubility in / Miscibility with Partly soluble. water: · Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent content: Organic solvents: 45,9 % Solids content: 0.0 % 9.2 Other information 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 and stored according to specifications. | | |
| 10.3 Possibility of hazardous | | | |
| reactions | Reacts with acids, alkalis and oxidising agents. | | |
| | Violent reactions with -NHx, -OH and -SH- groups. | | |
| 10.4 Conditions to avoid | No further relevant information available. | | |
| · 10.5 Incompatible materials: | No further relevant information available. | | |
| · 10.6 Hazardous decomposition | | | |
| products: | Hydrogen cyanide (prussic acid) | | |
| | Isocvanate | | |
| | Carbon monoxide and carbon dioxide | | |
| Possible in traces. | | | |
| | | | |
| SECTION 11: Toxicological information | | | |
| 11.1 Information on toxicological offecto | | | |
| 11.1 Information on toxicological effects | | | |
| <u>Acute toxicity</u> | Harmful if inhaled. | | |
| LD/LC50 values relevant for classification: | | | |
| ATE (Acute Toxicity Estimates) | | | |

Inhalative LC50/4 h 0.72 mg/l (rat)

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| | | | | (Contd. of page 7) |
|---|-----------------|---------|---|--------------------|
| aliphatic | polyisocyanate | ! | | |
| Oral | LD50 | >2,500 | mg/kg (rat) | |
| | NOAEL-Werte | 3 mg/kg | (rat) | |
| Dermal | LD50 | >2,000 | ng/kg (rabbit) | |
| | | | mg/kg (rat) | |
| Inhalative | LC50/4 h | 0.39 mg | /l (rat) (OECD TG 403) | |
| Primary in | ritant effect: | | | |
| Skin corro | sion/irritation | | Based on available data, the classification criteria are not met. | |
| Serious eye damage/irritation Ba | | tion | Based on available data, the classification criteria are not met. | |
| Respiratory or skin sensitisation May cause an allergic skin reaction. | | | | |
| CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) | | | | |
| Germ cell mutagenicity B | | | 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 r | | | May cause respiratory irritation. May cause drowsiness or dizzine | SS. |
| | | | Based on available data, the classification criteria are not met. | |
| Aspiration | hazard | | Based on available data, the classification criteria are not met. | |

SECTION 12: Ecological information

· 12.1 Toxicity

| · Aquatic tox | icity: | |
|-------------------------------------|-------------------------|--|
| aliphatic p | olyisocyanate | |
| EC50 | 3,828 mg/l (BES) (OE0 | CD 209) |
| LC 0/96h | >82.8 mg/l (Brachydar | nio rerio) (OECD 203) |
| EC50/48h | 127 mg/l (daphnia mag | gna) (RL 67/548/EWG, Anhang V, C.3.) |
| ErC50/72h | >1,000 mg/l (Desmode | esmus subspicatus) |
| EC0 | >100 mg/l (daphnia ma | agna) (OECD 202) |
| EL50/48h | 127 mg/l (daphnia mag | gna) |
| LL50/96h | 8.9 mg/l (Brachydanio | rerio) |
| EC10 | 370 mg/l (Desmodesm | nus subspicatus) |
| EC50/72h | >1,000 mg/l (Scenede | smus subspicatus) (OECD 201) |
| LC50/96h | >100 mg/l (Danio rerio | .) (RL 67/548/EWG, Anhang V, C.1.) |
| · 12.2 Persis | | |
| degradabi | | No further relevant information available. |
| · <u>12.3 Bioac</u> · 12.4 Mobil | cumulative potential | No further relevant information available. No further relevant information available. |
| · Ecotoxical | | |
| · Remark: | | Harmful to fish |
| | ecological information: | |
| General no | ites: | Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms |
| | | Water hazard class 1 (German Regulation) (Self-assessment): slightly |
| | | hazardous for water |
| | ts of PBT and vPvB as | |
| • <u>PBT:</u> | | Not applicable. |
| • <u>vPvB:</u> | adverse effects | Not applicable. No further relevant information available. |
| - <u>12.0 Other</u> | | (Contd. on page 9) |



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| SECTION | 13: Disposal considera | ations |
|--|--|---|
| · 13.1 Wast · Recomme | e treatment methods ndation | Must not be disposed together with household garbage. Do not allow product to reach sewage system. |
| · European | waste catalogue | |
| 08 00 00 | | MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and | I removal of paint and varnish |
| 08 01 11* | waste paint and varnish | containing organic solvents or other hazardous substances |
| 15 00 00 | WASTE PACKAGING; CLOTHING NOT OTHE | ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE RWISE SPECIFIED |
| 15 01 00 | packaging (including se | parately collected municipal packaging waste) |
| 15 01 10* | packaging containing re | esidues of or contaminated by hazardous substances |
| · Recomme | I packaging: ndation: nded cleansing agents: | Empty contaminated packagings thoroughly. They may be recycled afte thorough and proper cleaning. Alcohol |
| SECTION | 14: Transport informat | tion |
| · 14.1 UN-N · ADR, IMD | | UN1263 |
| · <u>ADR</u> · IMDG, IAT | roper shipping name A sport hazard class(es) | 1263 PAINT PAINT |
| · ADR · Class · Class · Label · IMDG, IAT | | 3 (F1) Flammable liquids. 3 |
| · Class · Label | | 3 Flammable liquids. 3 |
| · 14.4 Pack · ADR, IMD | G, IATA | III |
| • 14.5 Envir • Marine pol | onmental hazards: lutant: | No |
| | ial precautions for use de (Kemler): ber: | r Warning: Flammable liquids. 30 F-E, <u>S-E</u> |
| | | (Contd. on page 10 GB |



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| • Stowage Category A • 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: . • ADR . • 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 | | (Contd. of page 9) |
|---|---|---|
| Marpol and the IBC Code Not applicable. • Transport/Additional information: • • ADR • • Limited quantities (LQ) 5L • Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml | Stowage Category | A |
| Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml | | <u>f</u> |
| ADR Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml | Marpol and the IBC Code | Not applicable. |
| Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml | Transport/Additional information: | |
| Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml | · ADR | |
| Maximum net quantity per inner packaging: 30 ml | Limited quantities (LQ) | 5L |
| | Excepted quantities (EQ) | Code: E1 |
| Maximum not quantity par outer packaging: 1000 ml | | |
| | | Maximum net quantity per outer packaging: 1000 ml |
| Transport category 3 | | - |
| <u>Tunnel restriction code</u> D/E | <u>Tunnel restriction code</u> | D/E |
| ·IMDG | · IMDG | |
| · Limited quantities (LQ) 5L | Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) Code: E1 | · Excepted quantities (EQ) | Code: E1 |
| Maximum net quantity per inner packaging: 30 ml | | Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml | | Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": UN 1263 PAINT, 3, III | · 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

| <u> </u> | |
|--|---|
| 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 1907/200 | 6 |
| ANNEX XVII | Conditions of restriction: 3, 40 |
| National regulations: | |
| Information about limitation of use | Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. |
| Waterhazard class: | Water hazard class 1 (Self-assessment): slightly hazardous for water. |
| · VOC EU | 477.7 g/l |
| · DECOPAINT: subject to EU- | ····· 9· |
| regulations 2004/42/EG (ANNEX | |
| <u>II)</u> | EU limit for this product (product-category (Kat. B/d)): 420g/l (2010). The ready- |
| <u></u> / | to-use product (comprises of clear lacquer and hardener) contains max. 420 g/l VOC. |
| 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
- H226 Flammable liquid and vapour.



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Revision: 09.01.2018

Trade name: Hardener for Turbo Gloss 2K-UHS Clearcoat 2:1

| <u>Recommended restriction of use</u> | (Contd. of page 10) H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. refer to Technical Data Sheet (TDS) Only for professional use - no end consumer product |
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| <u>Department issuing SDS:</u> <u>Contact:</u> <u>Abbreviations and acronyms:</u> <u>Abbreviations and acronyms:</u> <u>Sources</u> <u>* Data compared to the previous</u> | Laboratory Dieter Zimmermann 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 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 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) 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. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 REACH directive 1907/2006/EC |
| version altered. | Adaptation in accordance with REACH directive 1907/2006/EC |