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|-----------------|--|
| C.I. Solvent O | range 3 |
| Hazard stateme | nts |
| H225 Highly fl. | ammable liquid and vapour. |
| H315 Causes sk | in irritation. |
| H318 Causes se | rious eye damage. |
| H341 Suspected | of causing genetic defects. |
| H336 May cause | drowsiness or dizziness. |
| H412 Harmful t | o 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. |
| 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. |
| P310 | Immediately call a POISON CENTER/doctor. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international |
| | regulations. |
| Additional inf | ormation: |
| EUH208 Contain | s C.I. Solvent Blue 4 < 0,1 $\%$ Michler's Ketone. May produce an allergic reaction. |
| 2.3 Other haza | rds |
| 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.

| Dangerous components: | | |
|---|--|---------------|
| CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43 | ethanol Flam. Liq. 2, H225; () Eye Irrit. 2, H319 | 50-100% |
| CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35 | 1-methoxy-2-propanol Flam. Liq. 3, H226; () STOT SE 3, H336 | 10-25% |
| CAS: 12645-31-7 EINECS: 235-741-0 Reg.nr.: 01-2119896587-13 | Phosphoric acid mono-bis-(2-ethylhexyl)-ester | 2.5-10% |
| CAS: 561-41-1 EINECS: 209-218-2 Reg.nr.: 01-2119979581-25 | C.I. Solvent Violet 8 Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 4, H413 | ≤ 2.5% |
| CAS: 495-54-5 EINECS: 207-803-7 Reg.nr.: 01-2120754909-37 | C.I. Solvent Orange 3 Muta. 2, H341; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315 | ≤ 2.5% |
| CAS: 6786-83-0 EINECS: 229-851-8 Reg.nr.: 01-2119950688-22 | C.I. Solvent Blue 4 < 0,1% Michler's Ketone Eye Dam. 1, H318; Skin Sens. 1B, H317 | <u>≤</u> 1 % |

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

SECTION 4: First aid measures

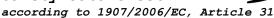
· 4.1 Description of first aid measures

- After inhalation:
- 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. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- \cdot 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page 3)

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- 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. Wear protective clothing.
 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.
- 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 item 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 in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- · 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

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    Ingredients with limit values that require monitoring at the workplace:
    107-98-2 1-methoxy-2-propanol (10-25%)
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IOELV Short-term value: 568 mg/m<sup>3</sup>, 150 ppm
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm
Skin
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· 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. 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.
• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



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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 If only a short-term loading of the glove material by splashes is expected, tricoted gloves with

higher wearability for the better acceptance of the users are recommended.

• Material of gloves

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. Nitrile rubber, NBR

· 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.
- Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

| · 9.1 Information on basic physical and chemical parts | roperties |
|---|---|
| · General Information | - |
| · Appearance: | |
| Form: | Fluid |
| Colour: | According to product specification |
| · Odour: | Product specific |
| · Odour threshold: | Not determined. |
| Important information on protection of health and environment, and on safety. | i _ |
| · pH-value at 20 °C: | 5,5 |
| · Change in condition | |
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 78 °C |
| · Flash point: | 13 °C |
| • Flammability (solid, gas): | Not applicable. |
| • Ignition temperature: | 287 °C |
| • Decomposition temperature: | Not determined. |
| • 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: | 1,7 Vol % |
| Upper: | 15 Vol % |
| · Vapour pressure at 20 °C: | 59 hPa |
| · Density: | Not determined. |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| • Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| water: | Fully miscible. |
| Partition coefficient: n-octanol/water: | Not determined. |
| · Viscosity: | |
| Dynamic at 20 °C: | 2,2 mPas |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 87,2 % |
| Solids content: | 8,4 % |
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9.2 Other information

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The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.

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.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · 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
- Suspected of causing genetic defects.
- · 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.

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: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): 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. Harmful to aquatic organisms

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

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

| Must not b | e disposed together with household garbage. Do not allow product to reach sewage system. |
|--------------|--|
| · European w | aste 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 13* | sludges from paint or varnish containing organic solvents or other hazardous substances |

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according to 1907/2006/EC, Article 31

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- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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| SECTION 14: Transport information | n |
|---|---|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN1263 |
| · 14.2 UN proper shipping name | |
| ADR | 1263 PAINT |
| · IMDG, IATA | PAINT |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
| | |
| | |
| · Class | 3 (F1) Flammable liquids. |
| · Label | 3 |
| · IMDG, IATA | |
| | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Flammable liquids. |
| · Danger code (Kemler): | 33 |
| · EMS Number: | <i>E-E</i> , <u><i>S-E</i></u> |
| · Stowage Category | В |
| · 14.7 Transport in bulk according to Annex | |
| Marpol and the IBC Code | Not applicable. |
| • Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 |
| | Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | _ D/E |
| | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 ml |
| • UN "Model Regulation": | UN 1263 PAINT, 3, II |

SECTION 15: Regulatory information

 \cdot 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

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- · National regulations:
- · Technical instructions (air):
 - Class Share in %

50-100 NK

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 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. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. · 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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDC: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) 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. 4: Acute toxicity - Category 4 Skin Corr. 1C: Skin corrosion/irritation - Category 1C Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1B: Skin sensitisation - Category 1B Muta. 2: Germ cell mutagenicity - Category 2 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 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 **4** Data compared to the provisions variable and the conduct of the aquatic environment - long-term aquatic hazard - Category 4 \cdot * Data compared to the previous version altered.