Hempathane Topcoat 55219 Base



1.4 Emergency telephone number (0 41 01) 70 70 (08.00 - 17.00)

+43 1 406 43 43 (24 hrs)

Austria: Vergiftungsinformationszentrale

Switzerland: Swiss Toxicological Information Centre

+41 44 251 51 51 (in Switzerland dial 145) (24 hrs)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - Austria / Germany

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

1.1 Product identifier

Product name: Hempathane Topcoat 55219 Base

Product identity: 5521900010, 001382FA

Product type: polyurethane paint (base for multi-component product)

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

Field of application : metal industry, ships and shipyards.

Ready-for-use mixture: 55210 = 55219 7 vol. / 95370 1 vol. 55212 = 55219 7 vol. / 95370 1 vol.

Identified uses: Consumer applications, Industrial applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details: Hempel (Germany) GmbH

Haderslebener Straße 9

25421 Pinneberg

Tel. (0 41 01) 70 70 Fax. (0 41 01) 70 71 31 hempel@hempel.com

Date of issue: 29 April 2025

Date of previous issue : 20 November 2023.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

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

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION

Skin Sens. 1, H317 SKIN SENSITIZATION

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation)

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects)

Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM)

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :







Signal word : Warning

Hazard statements: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

General: Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention: Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Avoid breathing vapor. Wash thoroughly after handling.

Response: FINHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN:

Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off

contaminated clothing and wash it before reuse.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international

regulations.

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Hempathane Topcoat 55219 Base



SECTION 2: Hazards identification

Hazardous ingredients: Solvent naphtha (petroleum), light arom.

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-

4-piperidyl sebacate

Supplemental label elements: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Special packaging requirements

Containers to be fitted with child-

resistant fastenings:

Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result None known.

in classification:

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Product/ingredient name	Identifiers	%	Regulation (EC) N	lo. 1272/2008 [CLP]	Туре
Solvent naphtha (petroleum), light arom.	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 128601-23-0	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 5000 ppm	[1] [2]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1 - ≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
mesitylene	REACH #: 01-2119463878-19 EC: 203-604-4 CAS: 108-67-8	≥1 - ≤3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1] [2]
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	REACH #: 01-0000017900-73 EC: 432-840-2 CAS: 220926-97-6 Index: 616-201-00-7	≥1 - ≤3	Acute Tox. 4, H332 STOT RE 2, H373 Aquatic Chronic 4, H413	ATE [Inhalation (vapours)] = 11 mg/l	[1]
Reaction mass of bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	REACH #: 01-2119491304-40 CAS: 1065336-91-5	≤1	Skin Sens. 1A, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
trimethylolpropane	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
			See Section 16 for the full text above.	of the H statements declared	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit, see section 8.
- [*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth

to an unconscious person.

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate

treatment (first aid).

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention

immediately.

Skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or

thinners. Remove contaminated clothing and shoes.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm

and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so

that vomit will not re-enter the mouth and throat.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May

cause respiratory irritation.

Skin contact : Causes skin irritation. May cause an allergic skin reaction. Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media: Recommended: alcohol resistant foam, CO₂, powders, water spray.

Not to be used: wateriet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or

mixture:

Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material

must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides metal oxide/oxides

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

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SECTION 7: Handling and storage

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Mene	TRGS 900 OEL (Germany, 6/2024) [Xylol] Absorbed through skin. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm. DFG MAC-values list (Germany, 7/2023) [Xylene] Develop D. Absorbed through skin. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift [Interval: 1 hour]. TWA 8 hours: 220 mg/m³. PEAK 15 minutes: 440 mg/m³ 4 times per shift [Interval: 1 hour]. EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
ethylbenzene	TRGS 900 OEL (Germany, 6/2024) Absorbed through skin. TWA 8 hours: 88 mg/m³. PEAK 15 minutes: 176 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) Carc 4, Develop C. Absorbed through skin. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 176 mg/m³ 4 times per shift [Interval: 1 hour]. TWA 8 hours: 88 mg/m³. TWA 8 hours: 20 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m³.
mesitylene	TRGS 900 OEL (Germany, 6/2024) TWA 8 hours: 100 mg/m³. PEAK 15 minutes: 200 mg/m³. TWA 8 hours: 20 ppm. PEAK 15 minutes: 40 ppm. DFG MAC-values list (Germany, 7/2023) [Trimethylbenzene] Develop C. TWA 8 hours: 20 ppm. TWA 8 hours: 100 mg/m³. PEAK 15 minutes: 200 mg/m³ 4 times per shift [Interval: 1 hour]. PEAK 15 minutes: 40 ppm 4 times per shift [Interval: 1 hour]. EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm. TWA 8 hours: 100 mg/m³.
M lene	Regulation on Limit Values - MAC (Austria, 4/2021) [Xylol (alle Isomeren, rein) PEAK 15 minutes: 442 mg/m³ 4 times per shift. TWA 8 hours: 50 ppm. PEAK 15 minutes: 100 ppm 4 times per shift. TWA 8 hours: 221 mg/m³. EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m³. STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m³.
ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 440 mg/m³. CEIL 5 minutes: 200 ppm 8 times per shift. CEIL 5 minutes: 880 mg/m³ 8 times per shift. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m³. STEL 15 minutes: 200 ppm.

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SECTION 8: Exposure controls/personal protection

	STEL 15 minutes: 884 mg/m³.
mesitylene	Regulation on Limit Values - MAC (Austria, 4/2021) [Trimethylbenzol (alle Isomeren)] PEAK 15 minutes: 30 ppm 4 times per shift. TWA 8 hours: 100 mg/m³. PEAK 15 minutes: 150 mg/m³ 4 times per shift. TWA 8 hours: 20 ppm. EU OEL (Europe, 1/2022) TWA 8 hours: 20 ppm.
	TWA 8 hours: 100 mg/m³.

Biological exposure indices

Product/ingredient name	Exposure limit values
<mark>M</mark> ene	DFG BEI-values list (Germany, 7/2023) [Xylene (all isomers)] Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 2000 mg/l, methylhippuric acid (toluric acid) (all isomers) [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2024) [Xylene (all isomers)] BEI: 2000 mg/l, methylhippuric acid [in urine]. Sampling time: end of exposure or end of shift.
ethylbenzene	DFG BEI-values list (Germany, 7/2023) Notes: danger from percutaneous absorption (see p. 211 and p. 228). BEI: 250 mg/g creatinine, mandelic acid plus phenyl glyoxylic acid [in urine]. Sampling time: end of exposure or end of shift. TRGS 903 - BEI Values (Germany, 2/2024) BEI: 250 mg/g creatinine, mandelic acid plus phenylglyoxylic acid [in urine]. Sampling time: end of exposure or end of shift.
mesitylene	DFG BEI-values list (Germany, 7/2023) [Trimethylbenzene (all isomers)] BEI: 400 mg/g creatinine, dimethyl benzoic acids (sum of isomers after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift / for long-term exposures: at the end of the shift after several shifts. TRGS 903 - BEI Values (Germany, 2/2024) [Trimethylbenzene] BEI: 400 mg/g creatinine, dimethylbenzoic acids (sum of isomers after hydrolysis) [in urine]. Sampling time: end of exposure or end of shift; for long-term exposures: at the end of shift after several shifts.
xy lene	VGU BEI (Austria, 9/2020) [xylenes] BEI Fitness: 1000 μg/l, xylene [in blood]. Sampling time: one year. BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time: one year.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

Product/ingredient name	Type - Population - Exposure	Value	Effects
Solvent naphtha (petroleum), light arom.	DNEL - Workers - Long term - Dermal	12.5 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	1.9 mg/m³	Effects: Systemic
xylene	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
	DNEL - Workers - Long term - Dermal	212 mg/kg bw/day	Effects: Systemic
ethylbenzene	DNEL - Workers - Long term - Dermal	180 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	77 mg/m³	Effects: Systemic
trimethylolpropane	DNEL - Workers - Long term - Dermal	0.94 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	3.3 mg/m³	Effects: Systemic

Predicted effect concentrations

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value
Mene	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Fresh water sediment	12.46 mg/kg
	Marine water sediment	12.46 mg/kg
	Soil	2.31 mg/kg
	Sewage Treatment Plant	6.68 mg/l
ethylbenzene	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Sewage Treatment Plant	9.6 mg/l
	Fresh water sediment	13.7 mg/kg
	Soil	2.68 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Individual protection measures

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be

worn when soiling is so great that regular work clothes do not adequately protect skin against contact

with the product. Safety eyewear should be used when there is a likelihood of exposure.

Where personal protection equipment is required this shall be chosen in accordance with German BGR

regulations of the "Berufsgenossenschaften".

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking,

using lavatory, and at the end of day.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment

indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of

protection: chemical splash goggles.

Hand protection: Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. The

quality of the chemical-resistant protective gloves must be chosen as a function of the specific

workplace concentrations and quantity of hazardous substances.

The the actual work situation is unknown. Supplier of gloves should be contacted in order to find the

appropriate type. Below listed glove(s) should be regarded as generic advice:

Recommended: Silver Shield / Barrier / 4H gloves, polyvinyl alcohol (PVA), Viton®

May be used: nitrile rubber (>0.3 mm)

Short term exposure: neoprene rubber (>0.1 mm), butyl rubber (>0.5 mm), natural rubber (latex) (>0.4

mm), polyvinyl chloride (PVC), nitrile rubber (>0.1 mm), butyl rubber (>0.3 mm)

Body protection: Personal protective equipment for the body should be selected based on the task being performed and

the risks involved handling this product.

Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection: When the product is applied by spraying and for continuous or prolonged work always wear an air-fed

respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle

filter of type P. (EN140) Be sure to use an approved/certified respirator or equivalent.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid.

Color: White

Odor: Solvent-like

pH: Testing not relevant or not possible due to nature of the product.

Melting point/freezing point: Testing not relevant or not possible due to nature of the product.

Boiling point/boiling range: Testing not relevant or not possible due to nature of the product.

Flash point : Closed cup: 33°C (91.4°F)

Evaporation rate: Testing not relevant or not possible due to nature of the product.

Flammability: Highly flammable in the presence of the following materials or conditions: open flames, sparks and

static discharge and heat.

Vapor pressure : Vapor Pressure at 20°C Vapor pressure at 50°C

	vapor Pressure at 20 C			va	oor pressur	e at 50 C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
w lene	6.7	0.89				

Vapor density : Not available.

Specific gravity : 1.19 g/cm³

Partition coefficient (LogKow): Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature : Ingredient name °C °F

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light arom.	280 - 470	536 - 878	

Decomposition temperature: Testing not relevant or not possible due to nature of the product.

Viscosity: Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.

Explosive properties: Testing not relevant or not possible due to nature of the product.

Oxidizing properties: Testing not relevant or not possible due to nature of the product.

9.2 Other information

Solvent(s) % by weight: Weighted average: 38 % Water % by weight: Weighted average: 0 %

VOC content: 457.6 g/l VOC content, Ready-for-use 434 g/l

mixture:

TOC Content: Weighted average: 408 g/l
Solvent Gas: Weighted average: 0.099 m³/l

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

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SECTION 10: Stability and reactivity

Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides metal oxide/oxides

SECTION 11: Toxicological information

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

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Acute toxicity

Product/ingredient name	Result	Dose / Exposure	Effects
lvent naphtha (petroleum), light arom.	Rat - Oral - LD50	3492 mg/kg	
	Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapor	3160 mg/kg 6193 mg/m³ [4 hours]	
titanium dioxide	Rat - Oral - LD50	>5000 mg/kg	
	Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	>5000 mg/kg >6.8 mg/l [4 hours]	
xylene	Rabbit - Dermal - LD50 Rat - Oral - LD50	>4200 mg/kg 3523 mg/kg	
	Rat - Inhalation - LC50 Vapor Rat - Inhalation - LC50 Gas.	6350 ppm [4 hours] 5000 ppm [4 hours]	
ethylbenzene	Rat - Oral - LD50	3500 mg/kg	Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other
	Rabbit - Dermal - LD50	>5000 mg/kg	changes
mesitylene	Rat - Oral - LD50 Rat - Inhalation - LC50 Vapor	5000 mg/kg 24000 mg/m³ [4 hours]	
12-hydroxyoctadecanoic acid,	Rat - Oral - LD50	2000 mg/kg	
reaction products with 1,3-benzenedimethanamine and hexamethylenediamine			
,	Rat - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	2000 mg/kg 3650 mg/m³ [4 hours]	
trimethylolpropane	Rat - Oral - LD50	14100 mg/kg	Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Dyspnea Lung, Thorax, or Respiration - Respiratory depression

Acute toxicity estimates

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapors) mg/l	Inhalation (dusts and mists) mg/l
Fempathane Topcoat 55219 Base Solvent naphtha (petroleum), light arom. xylene ethylbenzene mesitylene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine trimethylolpropane	3492 3523 3500 5000	8758.9 3160 1100	32389.4 5000 4500	291.2 11 24 11	

Irritation/Corrosion

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SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light arom.	Rabbit - Eyes - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 100 microliters
	Rabbit - Respiratory - Mild irritant	•	
	Rabbit - Skin - Moderate irritant		
titanium dioxide	Human - Skin - Mild irritant	Duration of treatment/ exposure: 72 hours	Amount/concentration applied: 300 Micrograms Intermittent
xylene	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 5 milligrams
	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 milligrams
	Rabbit - Skin - Irritant	•	
ethylbenzene	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 15 milligrams
	Rabbit - Respiratory - Mild irritant	•	
	Rabbit - Eyes - Mild irritant		
mesitylene	Rabbit - Eyes - Mild irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 500 milligrams
	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours	Amount/concentration applied: 20 milligrams

Sensitizer

No known data avaliable in our database.

Mutagenic effects

No known data avaliable in our database.

Carcinogenicity

No known data avaliable in our database.

Reproductive toxicity

No known data avaliable in our database.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), light arom.	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
mesitylene	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
pthylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2 Category 2	-	hearing organs -

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), light arom.	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
mesitylene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

No known significant effects or critical hazards.

11.2 Information on other hazards

according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No

1272/2008.

Other information: No additional known significant effects or critical hazards.

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SECTION 12: Ecological information

12.1 Toxicity

Do not allow to enter drains or watercourses. Harmful to aquatic life with long lasting effects.

Product/ingredient name	Product/ingredient name Result Species Exposure									
Product/ingredient name	Result	Species	Exposure							
Solvent naphtha (petroleum), light arom.	Acute - LC50	Fish - Oncorhynchus mykiss (rainbow trout)	9.22 mg/l [96 hours]							
	Acute - EC50	Algae - Pseudokirchneriella subcapitata (green algae)	2.6 mg/l [96 hours]							
	Acute - EC50	Daphnia	3.2 mg/l [48 hours]							
titanium dioxide	Acute - LC50	Fish	>100 mg/l [96 hours]							
	Acute - LC50	Daphnia	>100 mg/l [48 hours]							
ethylbenzene	Chronic - NOEC - Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	<1000 µg/l [96 hours]							
mesitylene	Acute - LC50 - Marine water	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea	13000 μg/l [48 hours]							
	Acute - LC50 - Fresh water	Fish - Goldfish - Carassius auratus	12520 - 15050 µg/l [96 hours]							
	Chronic - NOEC - Fresh water	Daphnia - Water flea - Daphnia magna	400 μg/l [21 days]							
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute - LC50	Fish	>100 mg/l [96 hours]							
	Acute - EC50	Daphnia	>100 mg/l [48 hours]							
	Acute - EC50 Acute - NOEC	Aquatic plants Aquatic plants	>100 mg/l [72 hours] 100 mg/l [72 hours]							

12.2 Persistence and degradability

Product/ingredient name	Test	Result
Solvent naphtha (petroleum), light		>70% [28 days] - Readily
arom.		
		>60% [28 days] - Readily
	OECD Ready Biodegradability - Manometric Respirometry Test	78% [28 days] - Readily
xylene	,	>60% [28 days] - Readily
	OECD Ready Biodegradability - Manometric Respirometry Test	90 - 98% [28 days] - Readily
ethylbenzene	•	>70% [28 days] - Readily
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	OECD Ready Biodegradability - Closed Bottle Test	9% [29 days] - Not readily
hexamethylenediamine trimethylolpropane	OECD Inherent Biodegradability: Zahn-Wellens/ EMPA Test	100% [28 days] - Readily

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Solvent naphtha (petroleum), light arom.			Readily
xylene ethylbenzene			Readily Readily
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and			Not readily
hexamethylenediamine trimethylolpropane			Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent naphtha (petroleum), light arom.	-	10 - 2500	High
xylene	3.12	8.1 - 25.9	Low
ethylbenzene	3.6	-	Low
mesitylene	3.42	161	Low
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	6.01	-	High
trimethylolpropane	-0.47	<1	Low

12.4 Mobility in soil

Soil/Water partition coefficient

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SECTION 12: Ecological information

Product/ingredient name	logKoc	Кос
wellene ethylbenzene	1.59 2.23	39 170.406
mesitylene trimethylolpropane	2.82 1.22	658.527 16.5101

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	νP	vM
Solvent naphtha (petroleum), light arom.	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
xylene	No	No	Yes	No	No	No	Yes
ethylbenzene	No	No	Yes	Yes	No	No	No
mesitylene	No	No	Yes	No	No	No	No
12-hydroxyoctadecanoic acid, reaction products with	No	No	No	Yes	No	No	No
1,3-benzenedimethanamine and hexamethylenediamine Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	Yes	No	No	No
trimethylolpropane	No	No	Yes	Yes	No	No	Yes

Mobility:

The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	Т	vPvB	vΡ	vB
Solvent naphtha (petroleum), light arom.	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
xylene	No	No	No	No	No	No	No
ethylbenzene	No	No	No	Yes	No	No	No
mesitylene	No	No	No	No	No	No	No
12-hydroxyoctadecanoic acid, reaction products with	No	No	No	Yes	No	No	No
1,3-benzenedimethanamine and hexamethylenediamine Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	No	No	No	Yes	No	No	No
trimethylolpropane	No	No	No	Yes	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	vB
Solvent naphtha (petroleum), light arom.	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
xylene	No	No	No	No	No	No	No
ethylbenzene	No	No	No	Yes	No	No	No
mesitylene	No	No	No	No	No	No	No
12-hydroxyoctadecanoic acid, reaction products with	No	No	No	Yes	No	No	No
1,3-benzenedimethanamine and hexamethylenediamine							
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl)	No	No	No	Yes	No	No	No
sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate							
trimethylolpropane	No	No	No	Yes	No	No	No

Conclusion/Summary:

The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC): 08 01 11*

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SECTION 13: Disposal considerations

Packaging

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Empty containers or liners may retain some product residues.

SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN / ID no.	14.2 Proper shipping name	14.3 Transport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3 *************************************	III	Yes.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel code (D/E)
IMDG Class	UN1263	PAINT. (Solvent naphtha (petroleum), light arom.)	3 🖎 🛬	III	Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3	III	No.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG* : Packing group

Env.*: Environmental hazards

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization - Substances of very high concern

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Other EU regulations

Seveso category This product is controlled under the Seveso III Directive.

Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2

National regulations

Austria

VbF class : A II

Very dangerous flammable liquid.

Limitation of the use of organic

solvents:

Forbidden

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SECTION 15: Regulatory information

Germany

Storage code:

Hazardous incident ordinance: This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria:

Category Reference number P5c: Flammable liquids 2 and 3 not falling under P5a or P5b 1.2.5.3

Hazard class for water:

Technical instruction on air quality

control:

Category Conc. (% w/w)

References: Other Rules:

- BGR 190 (Rules for the use of respiratory protective equipment)

- BGR 192 (Rules for the use of eye and face protection)

- BGR 195 (Rules for the use of gloves)

Switzerland

VOC content : 38 % (w/w)

National regulations Non-GHS

List name	Product/ingredient name	Name on list	Classification	Notes
DFG MAC-values list	titanium dioxide	Titanium dioxide (inhalable fraction)	K3, M3	-
DFG MAC-values list	ethylbenzene	Ethylbenzene	K3, M3	-

15.2 Chemical Safety Assessment

SECTION 16: Other information

Abbreviations and acronyms: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements: H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation. H317

May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled. H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer

H361 Suspected of damaging fertility or the unborn child.

Suspected of damaging fertility. Suspected of damaging the unborn child. H361fd May cause damage to organs through prolonged or repeated exposure. H373

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411 H413 May cause long lasting harmful effects to aquatic life. **EUH066** Repeated exposure may cause skin dryness or cracking.

ACUTE TOXICITY - Category 4 Full text of classifications [CLP/GHS]: Acute Tox. 4

AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Acute 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 1 Aquatic Chronic 2 AQUATIC HAZARD (LONG-TERM) - Category 2 Aquatic Chronic 4 AQUATIC HAZARD (LONG-TERM) - Category 4

ASPIRATION HAZARD - Category 1 Asp. Tox. 1 **CARCINOGENICITY - Category 2** Carc. 2

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 Flam. Liq. 3 Repr. 2 TOXIC TO REPRODUCTION - Category 2 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 Skin Sens. 1 Skin Sens. 1A SKIN SENSITIZATION - Category 1A

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SECTION 16: Other information

STOT RE 2 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Justification
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Notice to reader

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

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Safe Use of Mixture Information





This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

General description of the process covered

Indoor or outdoor spray painting by professionals or with brush, roller, putty knife, dipping etc. with good general room ventilation

This safe use information is linked to

: Professional spray painting and/or low-energy painting, local effect - Level II

Skin Sens. 1, Eye Irrit. 2, Asp. Tox. 1 or Solvent.

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

Operational conditions

Place of use : Indoor or outdoor use

Risk management measures (RMM)

Contributing	Process	Maximum duration	Ventilation Type and air changes per hour		Respiratory	Eye	Hands
activity	category (ies)	duration					
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by brush or roller	PROC10	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by spraying	PROC11	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08a	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See section 8 of this Safety Data Sheet for specifications.









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