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- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

CAS: 122-99-6	2-Phenoxyethanol	25-508
EINECS: 204-589-7 Reg.nr.: 01-2119488943-21	Acute Tox. 4, H302; Eye Irrit. 2, H319	
CAS: 100-51-6	Benzyl alcohol	2.5-10
EINECS: 202-859-9 Reg.nr.: 01-2119492630-38	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 107-41-5	2-methylpentane-2,4-diol	2.5-10
EINECS: 203-489-0 Reg.nr.: 01-2119539582-35	🚺 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 561-41-1	C.I. Solvent Violet 8	2.5-10
EINECS: 209-218-2	Alternative CAS number: 52080-58-7	
Reg.nr.: 01-2119979581-25	Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 6786-83-0	C.I. Solvent Blue 4 < 0,1% Michler's Ketone	2.5-10
EINECS: 229-851-8 Reg.nr.: 01-2119950688-22	🤣 Eye Dam. 1, H318; 🕧 Skin Sens. 1B, H317	
CAS: 12645-31-7	Phosphoric acid mono-bis-(2-ethylhexyl)-ester	2.5-10
EINECS: 235-741-0 Reg.nr.: 01-2119896587-13	📀 Skin Corr. 1B, H314	

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then 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: Use fire extinguishing methods suitable to surrounding conditions.
- · 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 clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

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- Prevent formation of aerosols.
- Information about fire and explosion protection: No special measures required.
- · 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: Not required.
- · Further information about storage conditions: None.
- Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · 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 skin. Avoid contact with the eyes and skin.
- Respiratory protection:
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- · Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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

9.1 Information on basic physical General Information	and chemical properties
Appearance:	
Form:	Fluid
Colour:	According to product specification
Odour:	Product specific
Odour threshold:	Not determined.
Important information on protecti	on of health and
environment, and on safety.	_

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pH-value at 20 °C:	5
Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 198.5 °C
Flash point:	121 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	260 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Explosion limits: Lower: Upper:	1.4 Vol % 9 Vol %
Vapour pressure at 20 °C:	0.04 hPa
Density at 20 °C: Relative density Vapour density Evaporation rate	1.09 g/cm³ Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity: Dynamic at 20 °C: Kinematic:	18,500 mPas Not determined.
Solvent content: Organic solvents:	45.0 %
Solids content:	44.0 %
9.2 Other information	The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of th 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.
- · LD/LC50 values relevant for classification:

122-99-6 2-Phenoxyethanol

Oral LD50 1,840 mg/kg (rat)

					,	Michler's	Ketone
Oral	LD50	>2,000	mg/kg	(rat)			

Dermal LD50 >2,000 mg/kg (rat)

12645-31-7 Phosphoric acid mono-bis-(2-ethylhexyl)-ester

Oral LD50 3,000 mg/kg (rat)

• Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

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- · Respiratory or skin sensitisation
- May cause an allergic skin reaction. · Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity)
- Based on the guidline OECD 431 in vitro tests have been performed. These tests proved, that the ink does not show any corrosive effect to the human skin.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- 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.
- Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · 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 be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	not applicable
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	not applicable
 14.3 Transport hazard class(es) 	
· ADR, ADN, IMDG, IATA	
· Class	not applicable
· 14.4 Packing group	
· ADR, IMDG, IATA	not applicable
· 14.5 Environmental hazards:	Not applicable.
• 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II	I of
Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	not applicable

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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DIRECTIVE	2011/65/EU or.	the restriction of the use of certain hazardous substances in electrical
electroni	c equipment -	Annex II
None of t	he ingredients	is listed.
National	regulations:	
	-	
	instructions	(air):
Class	Share in %	
NK	25-50	
		er hazard class 3 (Self-assessment): extremely hazardous for water. sessment: A Chemical Safety Assessment has not been carried out.
SECTION	16: Other	information
		ed on our present knowledge. However, this shall not constitute a guarant t features and shall not establish a legally valid contractual relationsh
Relevant		
	ful if swallow	red.
		burns and eye damage.
	es skin irrita	
		rgic skin reaction.
-	es serious eye	
	es serious eve	
	ful if inhaled	
		life with long lasting effects.
	ions and acron	
		,
		gerous Goods by Rail)
	ational Civil Avia	
		rt international des marchandises dangereuses par route (European Agreement Concerning the Interna
	Dangerous Goods by	Koad) ode for Dangerous Goods
	ational Air Transpo	
		of Classification and Labelling of Chemicals
		Existing Commercial Chemical Substances
		ied Chemical Substances
	1 Abstracts Service concentration, 50	e (division of the American Chemical Society)
	dose, 50 percent	percent
	ent, Bioaccumulati	ve and Toxic
vPvB: very H	ersistent and very	Bioaccumulative
	: Acute toxicity -	
Skin Corr. 1		irritation - Category 1B
	B: Skin corrosion/	
Skin Irrit.	B: Skin corrosion/ 2: Skin corrosion/	
Skin Irrit. Eye Dam. 1:	B: Skin corrosion/: 2: Skin corrosion/: Serious eye damage,	/eye irritation - Category 1 ge/eye irritation - Category 2
Skin Irrit. Eye Dam. 1: Eye Irrit. 2 Skin Sens. 1	B: Skin corrosion/ 2: Skin corrosion/ Serious eye damage, : Serious eye damage : Skin sensitisatio	/eye irritation - Category 1 ge/eye irritation - Category 2 on - Category 1
Skin Irrit. Eye Dam. 1: Eye Irrit. 2 Skin Sens. 1 Skin Sens. 1	B: Skin corrosion/ 2: Skin corrosion/ Serious eye damage, : Serious eye damag : Skin sensitisati B: Skin sensitisati	/eye irritation - Category 1 ge/eye irritation - Category 2 on - Category 1 ion - Category 1B
Skin Irrit. Eye Dam. 1: Eye Irrit. 2 Skin Sens. 1 Skin Sens. 1 Aquatic Chro	B: Skin corrosion/ 2: Skin corrosion/ Serious eye damage, : Serious eye damage, : Skin sensitisati B: Skin sensitisat. nic 3: Hazardous to	/eye irritation - Category 1 ge/eye irritation - Category 2 on - Category 1