



MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Printing date 13.05.2021

Revision: 13.05.2025



SECTION 1:

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- **1.1 Product identifier** For Industrial, professional and consumer only
- **Trade name:** **Zebra-Coat Binder - Gloss, Satin, Matt & Super Matt**
- **Article number:** 4004
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Surface Coating
- **Application of the substance / the mixture** Surface Coating
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
ZebraCoat
Unit 6 & 8
Britannia Park Industrial Estate
North Road
Cobridge
ST6 2PZ
- **Further information obtainable from:**
info@zebracoat.co.uk
- **1.4 Emergency telephone number:** +44 (0)1782 209527



SECTION 2:

HAZARDS IDENTIFICATION

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No.1272/2008**
 - Flam. Liq. 3**
H226 Flammable liquid and vapour.
 - Skin Irrit. 2**
H315 Causes skin irritation.
 - Eye Dam. 1**
H318 Causes serious eye damage.
 - Skin Sens. 1**
H317 May cause an allergic skin reaction.
 - STOT SE 3**
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
 - Aquatic Chronic 3**
H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
 -  **GHS02**
 -  **GHS05**
 -  **GHS07**
 -  **GHS08**
- **Signal word** Danger
- **Hazard-determining components of labelling:**
cyclohexanone
Butyl ethanoate

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Xylene (mix)

reaction mass of .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega.-hydroxypoly(oxyethylene) and .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-.omega.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

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

- Hazard statements**

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to the hearing organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water [or 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.
 P321 Specific treatment (see on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- 2.3 Other hazards**

- Results of PBT and vPvB assessment**

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



- 3.2 Chemical characterisation: Mixtures**

- Description: Mixture of substances listed below with non hazardous additions.**

Dangerous components:		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	Butyl ethanoate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	>25-≤50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	Xylene (mix) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	>25-≤50%
CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35-XXXX	cyclohexanone ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	>25-≤50%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-XXXX	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	>25-≤50%
CAS: 28553-12-0 EINECS: 249-079-5 Reg.nr.: 01-2119430798-28-xxxx	di-iso nonyl phthalate substance with a Community workplace exposure limit	>25-≤50%

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CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	>1-≤2.5%
ELINCS: 400-830-7 Reg.nr.: 01-0000015075-76-0017	reaction mass of .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tertbutyl-4-hydroxyphenyl)propionyl-.omega.-hydroxypoly(oxyethylene) and .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-.omega.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	>1-≤2.5%
Reg.nr.: 01-2119491304-40-0000	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4 piperidyl sebacate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	≤1%

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

SECTION 4: FIRST AID MEASURES



- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air and call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately and show safety datasheet or label.
- **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** Treat symptomatically

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.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES



- **6.1 Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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Prevent seepage into sewage system, workpits and cellars. 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). Use neutralising agent.

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

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE



- **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Ensure good ventilation/extraction at the workplace.

Prevent formation of aerosols.

Hygiene measures:

Wash hands before breaks and at the end of workday.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- **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:**

Keep receptacle tightly sealed and in a well-ventilated place.

Keep away from heat.

- **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**

Ingredients with limit values that require monitoring at the workplace:

123-86-4 Butyl ethanoate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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1330-20-7 Xylene (mix)

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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1330-20-7 Xylene (mix)

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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108-10-1 4-methylpentan-2-one

WEL	Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sk, BMGV
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28553-12-0 di-iso nonyl phthalate

WEL	Long-term value: 5 mg/m ³
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100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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• DNELs

123-86-4 Butyl ethanoate

Oral	DNEL	2 mg/day (Con)
Dermal	DNEL	6 mg/day (Con) 11 mg/day (Ind)
Inhalative	DNEL	35.7 mg/m ³ (Con) 300 mg/m ³ (Ind)

1330-20-7 Xylene (mix)

Dermal	DNEL	108 mg/day (Con) 180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m ³ (Con) 77 mg/m ³ (Ind)

108-94-1 cyclohexanone

Dermal	DNEL	4 mg/day (Ind)
Inhalative	DNEL	40 mg/m ³ (Ind)

108-10-1 4-methylpentan-2-one

Oral	DNEL	4.2 mg/day (Con)
Dermal	DNEL	4.2 mg/day (Con) 11.8 mg/day (Ind)
Inhalative	DNEL	14.7 mg/m ³ (Con) 83 mg/m ³ (Ind)

28553-12-0 di-iso nonyl phthalate

Oral	DNEL	4.4 mg/day (Con)
Dermal	DNEL	220 mg/day (Con) 366 mg/day (Wor)
Inhalative	DNEL	15.3 mg/m ³ (Con) 51.72 mg/m ³ (Wor)

reaction mass of .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and .alpha.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-oxypoly(oxyethylene)

Oral	DNEL	0.025 mg/day (Con)
Dermal	DNEL	0.25 mg/day (Con) 0.5 mg/day (Wor)
Inhalative	DNEL	0.085 mg/m ³ (Con)

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0.35 mg/m ³ (Wor)		
Reaction mass of bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6,pentamethyl-4 piperidyl sebacate		
Oral	DNEL	0.5 mg/day (Con)
Dermal	DNEL	1 mg/day (Con) 2 mg/day (Ind)
Inhalative	DNEL	0.87 mg/m ³ (Con) 3.53 mg/m ³ (Ind)

• PNECs

CAS No. 1330-20-7 Xylene mixed isomers

- Fresh water; 0.327 mg/l

- Marine water; 0.327 mg/l

- Intermittent release; 0.327 mg/l

- STP; 6.58 mg/l

- Sediment (Freshwater); 12.46 mg/kg

- Sediment (Marinewater); 12.46 mg/kg

- Soil; 2.31 mg/kg

CAS No. 123-86-4 Butyl Acetate

Freshwater: 0.18 mg/l

Marine water: 0.018 mg/l

Fresh water sediment: 0.981 mg/kg

Marine sediment: 0.0981 mg/kg

Soil: 0.0903 mg/kg

STP (sewage-treatment plant): 356.

Intermittent use/release: 0.36 mg/l

• Ingredients with biological limit values:

1330-20-7 Xylene (mix)

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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108-94-1 cyclohexanone

BMGV	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol
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108-10-1 4-methylpentan-2-one

BMGV	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one
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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.

Store protective clothing separately.

Avoid contact with the skin.

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Avoid contact with the eyes and skin.

- **Respiratory protection:** When spraying the product, use a respiratory protective device.

- **Protection of hands:**



Protective gloves

- **Eye protection:**



Tightly sealed goggles

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



• 9.1 Information on basic physical and chemical properties	
• General Information	
• Appearance:	
Form:	Liquid
Colour:	Clear
• Odour:	Characteristic
• Odour threshold:	Not determined.
• pH-value:	Not determined.
• Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	126 °C
• Flash point:	24 °C
• Flammability (solid, gas):	Not applicable.
• Ignition temperature:	420 °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: 1.1 Vol %	
Upper: 7.5 Vol %	
• Vapour pressure at 20 °C:	11.2 hPa
• Density at 20 °C:	0.941 g/cm ³
• Relative density	Not determined.
• Vapour density	Not determined.
• Evaporation rate	Not determined.
• Solubility in / Miscibility with water:	NOT MISCIBLE
• Partition coefficient: n-octanol/water:	Not determined.

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• Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	27 s (DIN 53211/4)
• Solvent content:	
Organic solvents:	74.6 %
Water:	0.1 %
Solids content:	25.3 %
• 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 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 when stored and handled correctly.

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:		
123-86-4 Butyl ethanoate		
Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	14,112 mg/kg (Rab)
Inhalative	LC50/4 h	23.4 mg/l (Rat)
1330-20-7 Xylene (mix)		
Oral	LD50	5,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (rbt)
Inhalative	LC50/4 h	11 mg/l (Rat)
108-94-1 cyclohexanone		
Oral	LD50	1,620 mg/kg (rat)
Dermal	LD50	764 mg/kg (rat)
Inhalative	LC50/4 h	6.2 mg/l (rat)
108-10-1 4-methylpentan-2-one		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	2 mg/l (rat)
28553-12-0 di-iso nonyl phthalate		
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>3,160 mg/kg (rab)

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Inhalative LC50/4 h >4.4 mg/l (Rat)		
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)
reaction mass of .alpha.-3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl-.omega.-hydroxypoly(oxyethylene) and .alpha.- 3-(3-(2H-benzotriazol-2-yl)-5- tert-butyl-4-hydroxyphenyl)propionyl-.omega.-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)		
Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>5.8 mg/l (Rat)
Reaction mass of bis(1,2,2,6,6,-pentamethyl-4-piperidyl)sebacate and methyl 1,2,2,6,6,pentamethyl-4 piperdyl sebacate		
Oral	LD50	3,230 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, 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**
May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to the hearing organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION



- **12.1 Toxicity**
- **Aquatic toxicity:**
Acute Fish toxicity
n-Butyl acetate
LC50 18 mg/l
Species: Pimephales promelas (fathead minnow)
Exposure duration: 96 h
Chronic Fish toxicity
n-Butyl acetate
No data available.
Acute toxicity for daphnia
n-Butyl acetate
EC50 44 mg/l
Species: Daphnia (water flea)
Exposure duration: 48 h
Chronic toxicity to daphnia

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n-Butyl acetate

NOEC 23 mg/l

Species: Daphnia magna (Water flea)

Exposure duration: 21 d

Method: OECD Test Guideline 211

Acute toxicity for algae

n-Butyl acetate

EC50 675 mg/l

Species: Scenedesmus quadricauda (Green algae)

Exposure duration: 72 h

Acute bacterial toxicity

EC50 356 mg/l

Species: activated sludge

Exposure duration: 40 h

- 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.

- Ecotoxicological 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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 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, IMDG, IATA

UN1263

- 14.2 UN proper shipping name

- ADR

1263 PAINT RELATED MATERIAL

- IMDG, IATA

PAINT RELATED MATERIAL

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- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA



- Class 3 Flammable liquids.
- Label 3

- 14.4 Packing group

- ADR, IMDG, IATA III

- 14.5 Environmental hazards:

- Marine pollutant: No

- 14.6 Special precautions for user Warning: Flammable liquids.

- Hazard identification number (Kemler code): 30

- EMS Number: F-E,S-E

- Stowage Category B

- 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

- Transport category 3

- Tunnel restriction code D/E

- IMDG

- Limited quantities (LQ) 5L

- Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, III



SECTION 15: REGULATORY INFORMATION

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

- Directive 2012/18/EU

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

- 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, 52a

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

None of the ingredients is listed.

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- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	74.6

- **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.

- **Full text of H-Statements referred to under sections 2 and 3:**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Product safety department: LABORATORY

- **Contact:** Health & Safety Officer

- **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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

