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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.11.2019

Revision: 13.11.2019

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

· 1.1 Product identifier For professional use only

• Trade name: Epoxy 2K Epilife 2 Colours

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

· Application of the substance / the mixture Surface Coating

• Uses advised against Product is not intended, labelled or packaged for consumer use.

 $\cdot$  1.3 Details of the supplier of the safety data sheet

• Supplier: HMG PAINTS LIMITED RIVERSIDE WORKS, COLLYHURST ROAD, MANCHESTER. M40 7RU UNITED KINGDOM TEL: +44 (0)161 205 7631 EMAIL: sales@hmgpaint.com

· Further information obtainable from: sales@hmgpaint.com

· 1.4 Emergency telephone number: +44 (0)161 205 7631 (Business hours)

**SECTION 2: Hazards identification** 

 $\cdot$  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 RE 2	H373 May cause damage to the hearing organs through prolonged or repeated
	exposure.

Aquatic Chronic 2 H411 Toxic 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



· Signal word Danger

 Hazard-determining components of labelling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin isobutanol Xylene (mix) reaction mass of ethylbenzene and m-xylene and p-xylene E96096
 Hazard statements

H226 Flammable liquid and vapour. H315 Causes skin irritation.

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	(Contd. of page 1)
H318 Causes serious	eye damage.
H317 May cause an	allergic skin reaction.
H373 May cause dan	nage to the hearing organs through prolonged or repeated exposure.
H411 Toxic to aquat	ic life with long lasting effects.
· Precautionary statem	nents
	F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with pater/shower.
	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if resent and easy to do. Continue rinsing.
P310 I	mmediately call a POISON CENTER/doctor.
P321 S	pecific treatment (see on this label).
P362+P364 7	ake off contaminated clothing and wash it before reuse.
	Dispose of contents/container in accordance with local/regional/national/international egulations.
· 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: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	>25-<50%
NLP: 500-033-5 Reg.nr.: 01-2119456619-26-xxxx	Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	×23- <u>3</u> 07
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	>10- <u>&lt;</u> 25%
EC number: 905-562-9 Reg.nr.: 01-2119555267-33	reaction mass of ethylbenzene and m-xylene and p-xylene 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	>10- <u>&lt;</u> 25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	>2.5- <u>&lt;</u> 10'
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-XXXX	1-methoxy-2-propanol Flam. Liq. 3, H226;  STOT SE 3, H336	>2.5- <i>≤</i> 10'
CAS: 147-14-8	CI Pigment Blue 15:3 substance with a Community workplace exposure limit	>2.5-≤10
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX	isobutanol � Flam. Liq. 3, H226; � Eye Dam. 1, H318; � Skin Irrit. 2, H315; STOT SE 3, H335-H336	>2.5-≤10°
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene	>1- <u>&lt;</u> 2.5%
CAS: 68002-18-6	Urea P/W Formaldehyde, Isobutylated Aquatic Chronic 4, H413	>1- <u>&lt;</u> 2.5%

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	Polyurethane	>1-≤2.5%
		-
ELINCS: 434-430-9	E96096	<i>≤l</i> %
Reg.nr.: 01-0000018057-71	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1B, H317; Aquatic Chronic 4, H413	

· 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
- $\cdot$  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.
  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 equipment.

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See Section 13 for disposal information.

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## **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.
- · 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**

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1330-20-7 Xylene (mix)         WEL       Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV         reaction mass of ethylbenzene and m-xylene and p-xylene         OEL       Short-term value: 2 ppm Long-term value: 50 ppm         108-65-6 2-methoxy-1-methylethyl acetate         WEL       Short-term value: 548 mg/m³, 100 ppm Long-term value: 548 mg/m³, 50 ppm         Sk         107-98-2 1-methoxy-2-propanol         WEL       Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk         147-14-8 CI Pigment Blue 15:3         WEL       Short-term value: 2 mg/m³ Long-term value: 2 mg/m³ Long-term value: 1 mg/m³ dusts and mists, as Cu         78-83-1 isobutanol         WEL       Short-term value: 231 mg/m³, 75 ppm Long-term value: 154 mg/m³, 50 ppm         WEL       Short-term value: 231 mg/m³, 75 ppm Long-term value: 252 mg/m³, 125 ppm         WEL       Short-term value: 252 mg/m³, 125 ppm Long-term value: 154 mg/m³, 125 ppm	Ingre	edients with limit values that require monitoring at the workplace:	
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DYEL3 25068-33-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin Oral DNEL 0.75 mg/day (Con) 8-33 mg/day (Con) 8-33 mg/day (Ind) 1nhalative DNEL 12.25 mg/n³ (Ind) 1330-20-7 Xylene (mix) Dermai DNEL 14.8 mg/n³ (Con) 180 mg/day (Ind) 1nhalative DNEL 1.6 mg/day (Con) 7 mg/n³ (Ind) Preaction meass of ethylbenene and m-xylene and p-xylene Oral DNEL 1.6 mg/day (Con) 3-182 mg/day (Con) 2-17 mg/n³ (Ind) 10-65-6 - Dreme and m-xylene and p-xylene Oral DNEL 1.6 mg/day (Con) 2-11 mg/n³ (Ind) 10-86-5 - Dreme and m-xylene and p-xylene Oral DNEL 1.6 mg/day (Con) 2-11 mg/n³ (Ind) 10-86-5 - Dreme and m-xylene and p-xylene Oral DNEL 1.6 mg/day (Con) 2-11 mg/n³ (Ind) 10-86-5 - Dremetay-1-methylethyl acetate Oral DNEL 5.5 mg/day (Con) 15.3.5 mg/day (Con) 15.3.5 mg/day (Con) 2-25 mg/n³ (Ind) 10-86-5 - Dremetay-1-methylethyl acetate Oral DNEL 5.4 mg/day (Con) 2-25 mg/n³ (Ind) 10-80-51 - methylethyl acetate Oral DNEL 3 mg/day (Con) 2-25 mg/n³ (Ind) 10-80-51 - methylethyl acetate Oral DNEL 3 mg/day (Con) 2-25 mg/n³ (Ind) 10-80-51 - methylethyl acetate Oral DNEL 3 mg/day (Con) 2-25 mg/n³ (Ind) 10-80-51 - methylethyl acetate 0-70-7 Mg/day (Con) 2-7 Sylene mixed isomers - Freshwater, 0.327 mg/l - Net 5-5 mg/m³ (Con) 3-10 mg/m³ (Ind) 7-8-8-1 - methylethyl acetate isomers - Freshwater; 0.327 mg/l - Intermittent release; 0.327 mg/l - Mariew water; 0.327 mg/l - Soli: 2-31 mg/kg 1-31-2-2-7 mg/m3 - Soli: 2-31 mg/kg 1-31-2-7 mg/m3 - Soli: 2-31 mg/kg - Soli	DNEL			(Contd. of pag
OralDNEL $0.75 mg/day$ (Con)DermalDNEL $3.571 mg/day$ (Con) $8.33 mg/day$ (Ind)InhalativeDNEL $12.25 mg/n^2$ (Ind) <b>1330-20-7 Xytene (mix)</b> DermalDNEL $12.25 mg/n^2$ (Ind)InhalativeDNEL $14.8 mg/m^2$ (Con) $180 mg/day$ (Ind)InhalativeDNEL $14.8 mg/m^2$ (Con) $77 mg/n^2$ (Ind)reaction mass of ethylbenzene and m-xylene and p-xyleneOralDNEL $1.877 mg/day$ (Con) $221 mg/day$ (Con) $23.82 mg/day$ (Ind)InhalativeDNEL $1.67 mg/day$ (Con) $221 mg/m^2$ (Ind) <b>108-65-62 -methoxy-1-methylethyl acetate</b> OralDNEL $1.67 mg/day$ (Con) $221 mg/m^2$ (Ind) <b>108-65-62 -methoxy-1-methylethyl acetate</b> OralDNEL $5.48 mg/day$ (Con) $275 mg/m^3$ (Ind) <b>107-98-21 -methoxy-2-propanol</b> OralDNEL $3.3 mg/day$ (Con) $25.6 mg/day$ (Con) $26.6 mg/day$ (Ind)InhalativeDNELDNEL $3.8 mg/m^3$ (Con) $50.6 mg/day$ (Con) $50.6 mg/day$ (Con) $50.6 mg/mg/n^3$ (Ind) <b>78-83-1 isobutanel78-83-1 isobutanel</b> <	DNELs	(	an market that the set of the test of test	
Dermal       DNEL       3.571 mg/day (Con)         Inhalative       DNEL       12.25 mg/m² (Ind)         Inhalative       DNEL       108 mg/day (Con)         Dermal       DNEL       108 mg/day (Con)         Inhalative       DNEL       14.8 mg/ag/ (Ind)         Inhalative       DNEL       14.8 mg/ag/ (Ind)         Inhalative       DNEL       14.8 mg/ag/ (Ind)         Inhalative       DNEL       1.65 mg/day (Con)         Dermal       DNEL       1.67 mg/day (Con)         Dermal       DNEL       1.67 mg/day (Con)         221 mg/m² (Ind)       221 mg/m² (Ind)         108-65-6       -methysthyl acetate         Oral       DNEL       5.5. mg/m² (Con)         25.5 mg/m² (Ind)       15.3 mg/m² (Con)         108-65-6       -methysthyl acetate         Oral       DNEL       5.3 mg/m² (Con)         17.98-21       -methystep mol         Oral       DNEL       3.3 mg/day (Con)         18.1 mg/day (Con)       3.5 mg/m² (Con)         19.78-21       -methystep mol         Oral       DNEL       18.1 mg/day (Con)         10.78 JO-0-7 Xylene mixed isomers       -         17.87 mg/m² (Ind)       -				
lnhalative8.33 mg/day (Ind)InhalativeDNEL[2.25 mg/m² (Ind)1330-20-7Xylene (mix)I330-20-7NEL[2.8 mg/day (Con)InhalativeDNEL[1.8 mg/m² (Con)7 mg/m² (Ind)7 mg/m² (Ind)POPELI for mg/day (Con)DermalDNELDNELI for mg/day (Con)DermalDNELI for mg/day (Con)DermalDNELI for mg/day (Con)DermalDNELI for mg/day (Con)DERJ mg/m² (Ind)108-65-0				
Inhalative       DNEL       12.25 mg/m² (Ind)         1330-20-7 Xylene (mix)       I80 mg/day (Con)         Inhalative       DNEL       148 mg/m² (Con)         Inhalative       DNEL       14.8 mg/m² (Con)         Trighm² (Ind)       Trighm² (Ind)         Peration mass of ethylbencene and m-xylene and p-xylene         Oral       DNEL       1.6 mg/day (Con)         J. B72 mg/day (Con)       3.182 mg/day (Con)         Inhalative       DNEL       6.5.3 mg/m² (Con)         221 mg/m² (Ind)       221 mg/m² (Ind)         108-65 2-methoxy-1-methylethyl acetate       Oral         Oral       DNEL       1.5.7 mg/day (Con)         Dermal       DNEL       5.4 mg/day (Con)         Inhalative       DNEL       5.4 mg/day (Con)         Dermal       DNEL       5.4 mg/day (Con)         Inhalative       DNEL       5.4 mg/day (Con)         Oral       DNEL       1.8 mg/day (Con)         Dermal       DNEL       1.8 mg/day (Con)         Dermal       DNEL       1.8 mg/day (Con)         Doral       DNEL       1.8 mg/day (Con)         Bermal       DNEL       1.8 mg/day (Con)         Bermal       DNEL       1.8 mg/day (Con)	Dermal	DNEL		
1330-20-7 Xylene (mix)         Dermal       DNEL         108 mg/day (Con)         180 mg/day (Ind)         Inhalative       DNEL         141       14.8 mg/m² (Con)         77 mg/m³ (Ind)         reaction mass of ethylbenzene and m-xylene and p-xylene         Oral       DNEL         1.82 mg/day (Con)         21 mg/m² (Con)         221 mg/m² (Con)         221 mg/m² (Con)         221 mg/m² (Con)         153.5 mg/day (Con)         153.5 mg/day (Ind)         Dremal       DNEL         164.5 - 62 - methoxy-1- methylethyl acetate         Oral       DNEL         175.5 mg/day (Con)         153.5 mg/day (Ind)         164.5 - 75 mg/m³ (Ind)         107-98-2 1-methoxy-2-propanol         Oral       DNEL         DVEL       18.1 mg/day (Con)         20.6 mg/day (Ind)         Inhalative       DNEL         DNEL       18.1 mg/day (Con)         50.6 mg/day (Ind)         Inhalative       DNEL         18.4 mg/m³ (Con)         30 mg/m³ (Ind)         78-83-1 isobutanot         Oral       DNEL         DNEL       25 mg/day (	× 1 1	DUEL	• • • •	
Dermal         DNEL         108 mg/day (Con)           180 mg/day (Ind)         180 mg/day (Ind)           Inhalative         DNEL         14.8 mg/m³ (Con)           77 mg/m³ (Ind)         7           Peration mass of ethylberzene and m-xylene and p-xylene           Oral         DNEL         1.6 mg/day (Con)           January (Con)         3,182 mg/day (Con)           January (DNEL)         1.6 mg/day (Con)           211 mg/m³ (Ind)         212 mg/m³ (Ind)           108-65-62-methoxy-1-methylethyl acetate         000           Oral         DNEL         1.6.7 mg/day (Con)           Dermal         DNEL         5.4.8 mg/day (Con)           Dermal         DNEL         5.4.8 mg/day (Con)           Dermal         DNEL         5.4.8 mg/day (Con)           Dremal         DNEL         5.4.8 mg/day (Con)           Dremal         DNEL         3.3 mg/day (Con)           Dremal         DNEL         3.3 mg/day (Con)           Dremal         DNEL         1.8.1 mg/day (Con)           So Go mg/day (Ind)         5.6 mg/ma (Lon)           Bongmfn* (Ind)         So Go mg/ma (Ind)           PNEL         3.5 mg/ma (Con)           369 mg/m² (Ind)         369 mg/m² (Lon)				
InhalativeI80 mg/day (Ind)InhalativeIA.8 mg/m3 (Con) $77 mg/m3 (Ind)$ reaction mass of ettrylbenzene and m-xylene and p-xyleneOralDNELI.8.72 mg/day (Con)DermalI.8.72 mg/day (Con)21 mg/m3 (Ind)InhalativeONELI.8.73 mg/m3 (Con)21 mg/m3 (Ind)108-65-6 $\rightarrow$ methylethyl acetateOralDNELI.6.7 mg/day (Con)118.8 mg/day (Con)DermalINELI.6.8 mg/day (Con)119.8 Mg/m3 (Con)119.8 Mg/m3 (Con)119.8 Mg/m3 (Con)22.7 mg/m3 (Ind)110.8 Mg/m3 (Con)110.8 Mg/m3 (Ind)111.8 Mg/m3 (Con)111.8 Mg/m3 (Con) <td></td> <td></td> <td></td> <td></td>				
InhalativeDNEL14.8 mg/m³ (Con) 7 mg/m³ (Ind)reactionanswer of thybenzene and m-xylene and p-xyleneOralDNEL1.6 mg/day (Con) 3.182 mg/day (Con) 2.21 mg/m³ (Ind)DatabaseDNEL6.5.3 mg/m³ (Con) 2.21 mg/m³ (Ind)108-65-65S-mg/m³ (Ind)108-65-65S-mg/m³ (Ind)108-65-67S-mg/day (Con) 2.75 mg/day (Con) 2.75 mg/m³ (Ind)108-65-67S-mg/day (Con) 2.75 mg/m³ (Ind)108-65-67S-mg/day (Con) 2.75 mg/m³ (Ind)109-67-67S-mg/day (Con) 2.75 mg/m³ (Ind)107-18-21I-stang (Con) 2.75 mg/m³ (Ind)107-18-21S-mg/day (Con) 2.55 mg/m³ (Ind)107-18-21S-mg/day (Con) 5.06 mg/day (Ind)107-18-19S-mg/day (Con) 5.06 mg/day (Con) 3.69 mg/m³ (Ind)108-19S-mg/m³ (Ind)109-10S-mg/m³ (Con) 3.130 mg/m³ (Ind)109-11DNEL3.3 mg/day (Con) 5.06 mg/day (Ind)109-12S-mg/m³ (Ind)110-12S-mg/m³ (Ind)120-13S-mg/m³ (Ind)130-20-7 Sylene mixed isomers - Fresh water: 0.327 mg/ - Sediment (Marine-water); 12.46 mg/kg - Sedi	Dermal	DNEL		
reaction77 mg/m² (Ind)reactionTors of ethylion ethylen eand m-xylene and m-xyleneOralDNEL1.6 mg/day (Con)DermalDNEL1.6 mg/day (Con)3.182 mg/day (Con)3.182 mg/day (Cn)221 mg/m³ (Ind)221 mg/m³ (Ind)108-65-6 $\rightarrow$ methoxy-r-inethylethyl acetate0OralDNEL1.67 mg/day (Con)DermalDNEL1.67 mg/day (Con)DermalDNEL1.67 mg/day (Con)InhalativeDNEL33 mg/m³ (Con)107-98-2 $\rightarrow$ methoxy-r-inethylethyl acetate153.5 mg/day (Ind)InhalativeDNEL33 mg/m³ (Con)DermalDNEL3.3 mg/day (Con)DermalDNEL3.3 mg/day (Con)DermalDNEL1.8. mg/day (Con)DermalDNEL1.4.1 mg/day (Con)Sofo mg/day (Ind)369 mg/m³ (Ind)Portex369 mg/m³ (Con)DremalDNEL2.5 mg/m³ (Con)InhalativeDNEL2.5 mg/m³ (Con)101-11Sofo mg/m³ (Ind)PNECsSofo mg/m³ (Ind)PNECsSofo mg/m³ (Ind)PNECsSofo mg/m³ (Ind)PNECsSofo mg/m³ (Ind)Sofo ms/m³ (Ind)310 mg/m³ (Ind)PNECsSofo mg/m³ (Ind)Sofo ms/m³ (Ind)310 mg/m³ (Ind)PNECsSofo mg/m³ (Ind)Sofo ms/m³ (Ind)310 mg/m³ (Ind)Sofo ms/m³ (Ind)310 mg/m³ (Ind)Sofo ms/m³ (Ind)Sofo ms/m³ (Ind)Sofo ms/m³ (Ind)Sofo ms/m³ (Ind)Sofo ms/	× 1 1	DUEL		
reaction mass of ethylbenzene and m-xylene and p-xylene Oral DNEL 1.6 mg/day (Con) 3.182 mg/day (Ind) Inhalative DNEL 56.3 mg/m <sup>3</sup> (Con) 221 mg/m <sup>3</sup> (Ind) 108-65-6 2-methoxy-1-methylethyl acetate Oral DNEL 1.67 mg/day (Con) 108-65-6 2-methoxy-1-methylethyl acetate Oral DNEL 54.8 mg/day (Con) 153.5 mg/day (Ind) Inhalative DNEL 33 mg/m <sup>3</sup> (Con) 275 mg/m <sup>3</sup> (Ind) 107-98-2 1-methoxy-2-propanol Oral DNEL 18.1 mg/day (Con) 50.6 mg/day (Ind) Inhalative DNEL 33.3 mg/day (Con) 50.6 mg/day (Ind) Inhalative DNEL 43.9 mg/m <sup>3</sup> (Con) 50.6 mg/day (Ind) Inhalative DNEL 43.9 mg/m <sup>3</sup> (Con) 50.6 mg/day (Ind) Inhalative DNEL 25 mg/m <sup>3</sup> (Con) 50.6 mg/day (Ind) Inhalative DNEL 25 mg/m <sup>3</sup> (Con) 309 mg/m <sup>3</sup> (Ind) PNECs CAS No. 130-20-7 Xylene mixed isomers - Fresh water; 0.327 mg/l - Intermittem release; 0.327 mg/l - Sediment (Marinewater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Sediment (Marinewater); 12.46 mg/kg - Solits_2.31 mg/kg Ingredients with biological limit values: 130-20-7 Xylene (mix) BMGV 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid	Inhalative	DNEL		
Oral DermalDNEL1.6 mg/day (Con) 3.182 mg/day (Con) 3.182 mg/day (Ind)Inhalative DNEL $65.3 mg/m^3$ (Con) 221 mg/m³ (Ind) <b>108-65-6 2-methoxy-1-methylethyl acetate</b> Oral DermalDNEL1.67 mg/day (Con) DErmalDNEL $1.67 mg/day$ (Con) 13.5 mg/day (Ind)InhalativeDNEL1.63 mg/m³ (Con) 275 mg/m² (Ind) <b>107-98-2 1-methyzethylethyl acetate</b> Oral DREL3.3 mg/day (Con) 275 mg/m² (Ind) <b>107-98-2 1-methoxy-2-propanol</b> Oral DRELJNEL3.3 mg/day (Con) 50.6 mg/day (Ind)InhalativeDNEL18.1 mg/day (Con) 50.6 mg/day (Ind)Oral DNELDNEL25 mg/m³ (Ind) <b>78-83-1 isobutanol</b> Oral Oral DNEL25 mg/m³ (Con) 310 mg/m³ (Ind) <b>78-83-1 isobutanol</b> Oral DNELS5 mg/n³ (Con) 310 mg/m³ (Ind) <b>PNECs</b> CAS No. 1330-20-7 Xylene mixed isomers - Fresh water; 0.327 mg/l - Intermittent release; 0.327 mg/l - Intermittent release; 0.327 mg/l - Intermittent release; 0.327 mg/l - Sediment (Marinewater); 12.46 mg/kg - Soil; 2.31 mg/kgIngredients with biological limit values: - Sampling time; post shift Parameter: methyl hippuric acidBMGV650 mmol/mol creatinine Medium: urine Sampling time; post shift Parameter: methyl hippuric acid		6		
DermalDNEL $1.87^2$ mg/day (Con) 3,182 mg/day (Ind)InhalativeDNEL $65.3$ mg/m³ (Con) 221 mg/m³ (Ind)108-65-62-emethyzet-1-methylethyl acetateOralDNEL $1.67$ mg/day (Con) 153.5 mg/day (Con) 275 mg/m³ (Ind)DermalDNEL $1.67$ mg/day (Con) 275 mg/m³ (Ind)107-98-21-methyzet-2-propanolOralDNEL $3.3$ mg/day (Con) 275 mg/m³ (Ind)107-98-21-methyzet-2-propanolOralDNEL $3.3$ mg/day (Con) 206 mg/day (Con) 369 mg/m³ (Ind)107-98-21-methyzet-2-propanolOralDNEL $3.3$ mg/day (Con) 369 mg/m³ (Ind)107-98-21-methyzet-2-propanolOralDNEL $3.3$ mg/day (Con) 369 mg/m³ (Ind)107-18DNEL $2.5$ mg/day (Con) 369 mg/m³ (Ind)778-83-11Solution778-84DNEL $2.5$ mg/day (Con) 310 mg/m³ (Ind)788-83-11Solution788-74Solution788-75Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-77Sylme mixed isomers788-78Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution788-76Samg/a Solution				
Inhalative $3,182 mg/day (Ind)$ Inhalative $5.3 mg/m^3 (Con)$ $221 mg/m^3 (Ind)$ $108-65-2$ -methoxy-1-methylethyl acetate $Oral$ $DNEL$ $1.67 mg/day (Con)$ $Dermal$ $DNEL$ $1.67 mg/day (Con)$ $Dramal$ $DNEL$ $1.67 mg/day (Ind)$ $Inhalative$ $215 mg/m^3 (Con)$ $275 mg/m^3 (Ind)$ $107-98-2$ 1-methoxy-2-propanol $Oral$ $DNEL$ $3.182 mg/day (Con)$ $275 mg/m^3 (Con)$ $Dremal$ $DNEL$ $3.182 mg/day (Con)$ $50.6 mg/day (Ind)$ $Inhalative$ $DNEL$ $43.9 mg/m^3 (Con)$ $369 mg/m^3 (Con)$ $369 mg/m^3 (Con)$ $Oral$ $DNEL$ $25 mg/day (Con)$ $369 mg/m^3 (Con)$ $310 mg/m^3 (Con)$ $310 mg/m^3 (Con)$ $310 mg/m^3 (Con)$ $Oral$ $DNEL$ $25 mg/day (Con)$ $310 mg/m^3 (Con)$ $310 mg/m^3 (Con)$ $310 mg/m^3 (Con)$ $PNECs$ $CAS No. 1330-20-7 Xylene mixel isomers- Fresh water; 0.327 mg/l- Marine water; 0.327 mg/l- Marine water; 0.327 mg/l- Seliment (Harinewater); 12.46 mg/kg- Seliment (Harinewater); 12.46 mg/kg- Solit: 2.31 mg/kgTargediemts with biological limit values:Targediemts wi$				
InhalativeDNEL $65.3 mg/m^3$ (Con) 221 mg/m³ (Ind) $108-65-5 \rightarrow methosystematorsInterplay (Ind)OralDNEL1.67 mg/day (Con)153.5 mg/day (Ind)DermalDNEL33 mg/m^3 (Con)275 mg/m³ (Con)275 mg/m³ (Con)InhalativeDNEL3.3 mg/m^3 (Con)275 mg/m³ (Con)50.6 mg/day (Ind)OralDNEL1.8.1 mg/day (Con)50.6 mg/day (Ind)InhalativeDNEL1.8 mg/day (Con)36 mg/m³ (Con)36 mg/m³ (Ind)TotalDNEL2.5 mg/m^3 (Con)310 mg/m³ (Con)310 mg/m³ (Ind)PNECsTotal310 mg/m³ (Ind)PNECsStarger (Samger Samger Samger$	Dermal	DNEL		
$221 mg/m^3 (Ind)$ $108-65-62-methoxy-1-methylethyl acetate$ $Oral$ $DNEL$ $1.67 mg/day (Con)$ $Dermal$ $DNEL$ $54.8 mg/day (Con)$ $153.5 mg/day (Ind)$ $153.5 mg/day (Ind)$ $Inhalative$ $DNEL$ $33 mg/m^3 (Con)$ $275 mg/m^3 (Ind)$ $275 mg/m^3 (Ind)$ $107-98-2$ $1-methoxy-2-propanol$ $Oral$ $DNEL$ $3.3 mg/day (Con)$ $Dermal$ $DNEL$ $18.1 mg/day (Con)$ $50.6 mg/day (Ind)$ $50.6 mg/day (Ind)$ $Inhalative$ $DNEL$ $43.9 mg/m^3 (Con)$ $369 mg/m^3 (Con)$ $369 mg/m^3 (Con)$ $369 mg/m^3 (Con)$ $310 mg/m^3 (Ind)$ $PNECs$ $CAS No. 1330-20-7 Xylene mixed isomers$ $-Fresh water, 0.327 mg/l$ $-1memitten release; 0.327 mg/l$ $-Intermitten release; 0.327 mg/l$ $-Sediment (Marinewater); 12.46 mg/kg$ $-Sediment (Marinewater); 12.46 mg/kg$ $-Sediment (Marinewater); 12.46 mg/kg$ $-Solit : 2.31 mg/kg$ $50 mol/mol creatinine Medium: urineBMGV650 mmol/mol creatinine Medium: urineSanpling time: post shiftParameter: methyl hippuric acid$				
108-65-6 2-methoxy-1-methylethyl acetate         Oral       DNEL       1.67 mg/day (Con)         Dermal       DNEL       54.8 mg/day (Con)         153.5 mg/day (Ind)       Inhalative       DNEL         Jampha       Con)       275 mg/m³ (Ind)         107-98-2 1-methoxy-2-propanol       Oral       DNEL         Oral       DNEL       3.3 mg/n³ (Con)         275 mg/m³ (Ind)       50.6 mg/day (Ind)         Dermal       DNEL       18.1 mg/day (Con)         50.6 mg/day (Ind)       50.6 mg/day (Ind)         Inhalative       DNEL       43.9 mg/m³ (Con)         369 mg/m³ (Ind)       369 mg/m³ (Ind)         78-83-1 isobutanol       Oral       DNEL         Oral       DNEL       25 mg/day (Con)         Inhalative       DNEL       25 mg/m³ (Con)         310 mg/m³ (Ind)       310 mg/m³ (Ind)         PNECs       55 mg/m³ (Con)         Araine water; 0.327 mg/l       110 mg/m³ (Ind)         PMECs       -         CAS No. 1330-20-7 Xylene mixed isomers       -         - Fresh water; 0.327 mg/l       -         - Intermittent release; 0.327 mg/l       -         - Sediment (Harinewater); 12.46 mg/kg       -         - Sediment	Inhalative	DNEL		
Oral       DNEL       1.67 mg/day (Con)         Dermal       DNEL       54.8 mg/day (Con)         153.5 mg/day (Ind)       Isi.5.5 mg/day (Ind)         Inhalative       DNEL       33 mg/n <sup>3</sup> (Con)         275 mg/n <sup>3</sup> (Ind)       275 mg/n <sup>3</sup> (Ind)         107-98-2 1-methoxy-2-propanol       0         Oral       DNEL       8.1 mg/day (Con)         Dermal       DNEL       18.1 mg/day (Con)         50.6 mg/day (Ind)       50.6 mg/day (Ind)         Inhalative       DNEL       43.9 mg/m <sup>3</sup> (Con)         369 mg/m <sup>3</sup> (Ind)       369 mg/m <sup>3</sup> (Ind)         78-83-1 isobutanol       0         Oral       DNEL       25 mg/day (Con)         Inhalative       DNEL       55 mg/n <sup>3</sup> (Con)         310 mg/m <sup>3</sup> (Ind)       310 mg/m <sup>3</sup> (Ind)         PNECs       55 mg/n <sup>3</sup> (Con)         CAS No. 1320-20-7 Xylene mixed isomers       -         - Fresh water; 0.327 mg/l       -         - Intermittent release; 0.327 mg/l       -         - Intermittent release; 0.327 mg/l       -         - Sediment (Freshwater); 12.46 mg/kg       -         - Sediment (Freshwater); 12.46 mg/kg       -         - Sediment (Marinewater); 12.46 mg/kg       -         - Sof				
DermalDNEL $54.8 \text{ mg/day}$ (Con) $153.5 \text{ mg/day}$ (Ind)InhalativeDNEL $33 \text{ mg/m^3}$ (Con) $275 \text{ mg/m^3}$ (Ind)107-98-2 I-methoxy-2-propanolOralDNEL $3.3 \text{ mg/day}$ (Con) $50.6 \text{ mg/day}$ (Ind)DermalDNEL $18.1 \text{ mg/day}$ (Con) $50.6 \text{ mg/day}$ (Ind)InhalativeDNEL $18.1 \text{ mg/day}$ (Con) $369 \text{ mg/m^3}$ (Ind)78-83-1 is/ $43.9 \text{ mg/m^3}$ (Con) $369 \text{ mg/m^3}$ (Ind)78-83-1 is/ $25 \text{ mg/day}$ (Con) $310 \text{ mg/m^3}$ (Ind)PNEL $25 \text{ mg/day}$ (Con) $310 \text{ mg/m^3}$ (Ind)PNEL $55 \text{ mg/m^3}$ (Con) $310 \text{ mg/m^3}$ (Ind)PNES $CAS No. 1330-20-7 \text{ Xylene mixed isomers}$ - Fresh water; $0.327 \text{ mg/l}$ - Intermittent release; $0.327 \text{ mg/l}$ - Intermittent release; $0.327 \text{ mg/l}$ - Stediment (Marinewater); $12.46 \text{ mg/kg}$ - Sediment (Marinewater); $12.46 \text{ mg/kg}$ - Sediment (Marinewater); $12.46 \text{ mg/kg}$ - Soil; $2.31 \text{ mg/kg}$ Ingredients with biological limit values:I330-20-7 Xylene (mix)BMGV $650  mmo/mo/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid$				
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$ \begin{array}{ c c c c c } \hline 275 \ mg/m^3 (Ind) \\ \hline 107-98-2 \ I-methoxy-2-propanol \\ \hline 007al & DNEL & 3.3 \ mg/day (Con) \\ \hline 007al & DNEL & 18.1 \ mg/day (Con) \\ & 50.6 \ mg/day (Ind) \\ \hline 107al & DNEL & 43.9 \ mg/m^3 (Con) \\ & 369 \ mg/m^3 (Ind) \\ \hline 78-83-1 \ isobutanol \\ \hline 78-83-1 \ isobutanol \\ \hline \hline 78-83-1 \ i$				
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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         - 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         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	Inhalative	DNEL	-	
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- Soil; 2.31 mg/kg 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	CAS No. 1 - Fresh wa - Marine w - Intermitte - STP; 6.58 - Sediment	ter; 0.3 vater; 0. ent relea 8 mg/l (Fresh	27 mg/l 327 mg/l ase; 0.327 mg/l water); 12.46 mg/kg	
1330-20-7 Xylene (mix)         BMGV       650 mmol/mol creatinine         Medium: urine         Sampling time: post shift         Parameter: methyl hippuric acid	- Soil; 2.31	l mg/kg		
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Medium: urine Sampling time: post shift Parameter: methyl hippuric acid		-		
Parameter: methyl hippuric acid				
	Pa	iramete	r: methyl hippuric acid	

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#### Trade name: Epoxy 2K Epilife 2 Colours

• Additional information: The lists valid during the making were used as basis.	(Contd. of page 5)
· 8.2 Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measures:	
Keen away from foodstuffs beverages and feed	

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. Avoid contact with the eyes and skin.

- Respiratory protection: When spraying the product, use a respiratory protective device.
- · Protection of hands:



Protective gloves

#### · 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.

· Penetration time of glove material

The exact break through 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 properties

· General Information	
· Appearance:	
Form:	Liquid
Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	

I · · · · · · · · ·	
• Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. 120 °C
· Flash point:	24 °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.
	(Contd on page 7)

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## Safety data sheet according to 1907/2006/EC, Article 31

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	(Contd. of pag
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7 Vol %
Vapour pressure at 20 °C:	6.7-8.2 hPa
Density at 20 °C:	1.043 g/cm <sup>3</sup>
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.
Viscosity:	
Dynamic at 20 °C:	180 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	41.8 %
Solids content:	58.6 %
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.
- $\cdot$  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.

		product: bisphenol-A-(epichlorhydrin) epoxy resin	
Oral	LD50	15,000 mg/kg (Rat)	
Dermal	LD50	23,032 mg/kg (Rab)	
1330-20-7	Xylene (m	nix)	
Oral	LD50	5,000 mg/kg (Rat)	
Dermal	LD50	2,000 mg/kg (rbt)	
Inhalative	LC50/4 h	11 mg/l (Rat)	
108-65-62	2-methoxy-	-1-methylethyl acetate	
Oral	LD50	>5,000 mg/kg (rat)	
Dermal	LD50	5,000 mg/kg (Rat)	
Inhalative	LC50/4 h	>10.8 mg/l (Rat)	
107-98-2	l-methoxy-	-2-propanol	
Oral	LD50	4,016 mg/kg (rat)	

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		(Contd. of page 7)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	25.8 mg/l (rat)
147-14-8 (	CI Pigment	t Blue 15:3
Oral	LD50	>2,000 mg/kg (Rat)
78-83-1 iso	obutanol	
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rab)
100-41-4 e	thylbenzer	10
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rbt)
E96096		
Oral	LD50	2,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rat)
Inhalative	LC50/4 h	4.1 mg/l (Rat)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

 $\cdot$  Serious eye damage/irritation

Causes serious eye damage.

• *Respiratory or skin sensitisation May cause an allergic skin reaction.* 

· 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

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: 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: Toxic for 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. Also poisonous for fish and plankton in water bodies.

Toxic for 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.

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Printing date 13.11.2019 Revision: 13.11.2019 Trade name: Epoxy 2K Epilife 2 Colours (Contd. of page 8) **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  $\cdot ADR$ 1263 PAINT RELATED MATERIAL, ENVIRONMENTALLY HAZARDOUS · IMDG PAINT RELATED MATERIAL (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin), MARINE POLLUTANT · IATA PAINT RELATED MATERIAL · 14.3 Transport hazard class(es) · ADR, IMDG 3 Flammable liquids. · Class · Label 3 ·IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group Ш · ADR, IMDG, IATA · 14.5 Environmental hazards: Product contains environmentally hazardous substances: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin Symbol (fish and tree) · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): · 14.6 Special precautions for user Warning: Flammable liquids. · Danger code (Kemler): 30 · EMS Number: F-E,S-E· Stowage Category A · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. (Contd. on page 10)

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5L
Code: El
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
3
D/E
5L
Code: El
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
UN 1263 PAINT RELATED MATERIAL, 3, III
ENVIRONMENTALLY HAZARDOUS

## **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
- E2 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:

• Technical instructions (air):

Class Share in % NK 41.8

• 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.

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H373 May cause damage to the hearing organs through prolor	(Contd. of page
	igea or repeaiea exposure.
H411 Toxic to aquatic life with long lasting effects.	
H413 May cause long lasting harmful effects to aquatic life.	
Department issuing SDS: Product safety department: LABORA	ATORY
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par l	Route (European Agreement concerning the Internatio
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 Chemic	cals
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society,	)
DNEL: Derived No-Effect Level (REACH)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1B: Skin sensitisation – Category 1B	
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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic	c hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic	c hazard – Category 4