

Safety data sheet
according to 1907/2006/EC

Printing date 18.08.2015

Version number 1

Revision: 18.08.2015

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

- **1.1 Product identifier**
- **Trade name** *BETAPRIME 5600-1*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *Adhesion promoter*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Supplier:
R-LOGISTICS GmbH
Daimlerstr. 21
74252 Massenbachhausen
-
- Manufacturer:*
DOW Deutschland Anlagengesellschaft mbH
Am Kronberger Hang 4
65824 Schwalbach
- **Informing department:**
(31) 115 67 2626
SDSQuestion@dow.com
- **1.4 Emergency telephone number:** *0049 4146 91 2333*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 *Highly flammable liquid and vapour.*



GHS08 health hazard

Repr. 2 H361d *Suspected of damaging the unborn child.*
 STOT RE 2 H373 *May cause damage to the hearing organs through prolonged or repeated exposure.*
 Asp. Tox. 1 H304 *May be fatal if swallowed and enters airways.*

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GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
.....		
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, GHS07, GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

toluene

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

xylene, mixed isomers, pure

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective clothing / eye protection.

P331 Do NOT induce vomiting.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P362+P364 Take off contaminated clothing and wash it before reuse.

· **Additional information:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of the substances listed below with harmless additions.· **Dangerous components:**

CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	50-100%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-32	xylene, mixed isomers, pure 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: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	2.5-10%
CAS: 25068-38-6 NLP: 500-033-5 Reg.nr.: 01-2119456619-26	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 2.5%

· **SVHC** The product contains no substances named in the SVHC candidate list.· **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information**

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

· **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Do not induce vomiting; instantly call for medical help.

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Seek medical treatment.

· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· **5.2 Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

· **Additional information**

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use breathing protection against the effects of fumes/dust/aerosol.

· **6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

Inform respective authorities in case product reaches water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Provide solvent resistant, sealed floor.
Provide floor trough without outlet.
Store in cool location.
Regulations for storage of flammable liquids.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Regulations for storage of flammable liquids.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **Storage class 3**
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

108-88-3 toluene

WEL (Great Britain)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
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1330-20-7 xylene, mixed isomers, pure

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

67-64-1 acetone

WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

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100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (EU)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin

· DNELs**108-88-3 toluene**

Oral	DNEL 8.13 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL 384 mg/kg bw/day (worker, systemic, long term) 226 mg/kg bw/day (consumer, systemic, long term)
Inhalative	DNEL 343 mg/m ³ (worker, local, short term) 192 mg/m ³ (worker, local, long term) 384 mg/m ³ (worker, systemic, short term) 192 mg/m ³ (worker, systemic, long term) 226 mg/m ³ (consumer, local, short term) 226 mg/m ³ (consumer, systemic, short term) 56.5 mg/m ³ (consumer, systemic, long term)

1330-20-7 xylene, mixed isomers, pure

Oral	DNEL 1.6 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL 180 mg/kg bw/day (worker, systemic, long term) 108 mg/kg bw/day (consumer, systemic, long term)
Inhalative	DNEL 289 mg/m ³ (worker, systemic, short term) 77 mg/m ³ (worker, systemic, long term) 174 mg/m ³ (consumer, local, short term) 174 mg/m ³ (consumer, systemic, short term) 14.8 mg/m ³ (consumer, systemic, long term)

67-64-1 acetone

Oral	DNEL 62 mg/kg bw/day (consumer, syst./loc, long term)
Dermal	DNEL 186 mg/kg bw/day (worker, syst./loc., long term) 62 mg/kg bw/day (consumer, syst./loc, long term)
Inhalative	DNEL 2420 mg/m ³ (worker, syst./loc., short term) 1210 mg/m ³ (worker, syst./loc., long term) 200 mg/m ³ (consumer, syst./loc, long term)

100-41-4 ethylbenzene

Oral	DNEL 1.6 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL 180 mg/kg bw/day (worker, systemic, long term)

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<i>Inhalative</i>	<i>DNEL</i>	293 mg/m ³ (worker, local, short term) 77 mg/m ³ (worker, systemic, long term) 15 mg/m ³ (consumer, systemic, long term)
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· PNECs
108-88-3 toluene

<i>PNEC</i>	0.68 mg/l (fresh water) 13.61 mg/l (sewage plant (STP)) 16.39 mg/kg dwt (fresh water sediment) 2.89 mg/kg dwt (soil)
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1330-20-7 xylene, mixed isomers, pure

<i>PNEC</i>	0.327 mg/l (fresh water) 0.327 mg/l (salt water) 0.327 mg/l (sporadic release) 6.58 mg/l (sewage plant (STP)) 12.46 mg/kg dwt (fresh water sediment) 12.46 mg/kg dwt (salt water sediment) 2.31 mg/kg dwt (soil)
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67-64-1 acetone

<i>PNEC</i>	10.6 mg/l (fresh water) 1.06 mg/l (salt water) 21 mg/l (sporadic release) 19.5 mg/l (sewage plant (STP)) 30.4 mg/kg dwt (fresh water sediment) 3.04 mg/kg dwt (salt water sediment) 0.112 mg/kg dwt (soil)
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100-41-4 ethylbenzene

<i>PNEC</i>	0.1 mg/l (fresh water) 0.01 mg/l (salt water) 0.1 mg/l (sporadic release) 9.6 mg/l (sewage plant (STP)) 13.7 mg/kg dwt (fresh water sediment) 1.37 mg/kg dwt (salt water sediment) 2.68 mg/kg dwt (soil)
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· Ingredients with biological limit values:
1330-20-7 xylene, mixed isomers, pure

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BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

· **Breathing equipment:**



Use breathing protection in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves.

· **Material of gloves**

We recommend:
Nitril / Neopren ; strength >0,55 mm
naturelatex; strength > 1,0 mm
e.g. Sol-Vex 37-185; Emperor ME 104
(breakdown time >180 min)

· **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 safety glasses.

· **Body protection:**



Protective work clothing.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Colourless
Smell:	Solvent-like
Odour threshold:	Not determined.

· **pH-value:** Neutral

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	55 °C
Flash point (ISO 3679 / ISO 3680; SETA CLOSED CUP):	19 °C (DIN EN 456)

· **Inflammability (solid, gaseous)** Not applicable.

· **Ignition temperature:** 430 °C
 · **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· Critical values for explosion:

Lower:	1.1 Vol %
Upper:	7.1 Vol %

· **Steam pressure at 20 °C:** 29 hPa

· **Density (DIN 51757) at 20 °C:** 0.88 g/cm³
 · **Relative density** Not determined.
 · **Vapour density** Not determined.
 · **Evaporation rate** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

dynamic: Not determined.
kinematic: Not determined.

· **9.2 Other information** No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases / fumes
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Bases, oxidizing agents, amines
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	31 mg/l (rat)

1330-20-7 xylene, mixed isomers, pure

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	15354 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)

100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Dermal	LD50	> 2000 mg/kg (rat) > 2000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Irritant for skin and mucous membranes.
- **Serious eye damage/irritation** Irritant effect.
- **Respiratory or skin sensitisation** Sensitization possible by skin contact.

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- **Additional toxicological information:** Harmful
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Repr. 2

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

108-88-3 toluene

EC50	10-100 mg/l (daphniae) (3 h) 134 mg/l (algae)
LC50	(96 h) 1-10 mg/l (fish) (48 h) 3.78 mg/l (daphniae) >100 mg/l (bacterae)
NOEC	1-10 mg/l (fish) 1-10 mg/l (daphniae)

1330-20-7 xylene, mixed isomers, pure

EC50	3.82 mg/l (daphniae) 4.7 mg/l (algae) > 175 mg/l (bacterae)
LC50	7.6 mg/l (fish) < 100 mg/l (algae) < 10 mg/l (bacterae)

67-64-1 acetone

LC50	5540 mg/l (fish) (<i>Oncorhynchus mykiss</i> ; 96 h) 12600 mg/l (daphniae) (<i>Daphnia magna</i> ; 48 h)
NOEC	4740 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i> ; 48 h) 1700 mg/l (bacterae) (<i>Pseudomonas putida</i>)

100-41-4 ethylbenzene

EC50	1.8-2.9 mg/l (daphniae) (48 h; <i>Daphnia magna</i>)
IC50	4.6 mg/l (algae) (72 h, <i>Selenastrum capricornutum</i>)
LC50	94.44 mg/l (fish) (96 h; <i>Carassius auratus</i>)

- **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

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- **Additional ecological information:**
- **AOX-indication:** not relevant
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
none
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
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 of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
The waste key numbers from EWC, is sector and process-specific implement .
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|---------------------------|
| 14.1 UN-Number | |
| ADR, IMDG, IATA | UN1139 |
| 14.2 UN proper shipping name | |
| ADR | 1139 COATING SOLUTION |
| IMDG, IATA | COATING SOLUTION |
| 14.3 Transport hazard class(es) | |
| ADR | |
|  | |
| Class | 3 (F1) Flammable liquids. |

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· **Label** 3· **IMDG, IATA**· **Class** 3 Flammable liquids.· **Label** 3· **14.4 Packing group**· **ADR, IMDG, IATA** II· **14.5 Environmental hazards:**· **Marine pollutant:** No· **14.6 Special precautions for user**

Transport only in sealed and upright standing containers. Transport only by persons instructed concerning the measures in case of spilling or accident.

Warning: Flammable liquids.

· **Kemler Number:** 33· **EMS Number:** F-E,S-E· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)** 5L· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **Transport category** 2· **Tunnel restriction code** D/E· **IMDG**· **Limited quantities (LQ)** 5L· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN1139, COATING SOLUTION, 3, II

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 / Part II 2010**
The 2004/42/EG does not apply for this product.
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS07, GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**
toluene
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
xylene, mixed isomers, pure
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective clothing / eye protection.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
- **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
- **National regulations** Control of Substances Hazardous to Health (COSHH)
- **Information about limitation of use:** none

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The REACH registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations) are given to our present knowledge resulting from the information provided by our suppliers.

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- 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.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to the hearing organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Flam. Liq. 2: Flammable liquids, Hazard Category 2
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Repr. 2: Reproductive toxicity, Hazard Category 2
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· *** Data compared to the previous version altered.**