

**Safety data sheet**  
According to 1907/2006/EC, Article 31 REACH

Printing date 06.11.2017

Version: 9

Revision: 06.11.2017

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

· **1.1 Product identifier**

· **Trade name:** MARKOPEINT (all colours)

· **Article number:** 03660001

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC9a Coatings and paints, thinners, paint removers

· **Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

· **Environmental release category**

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

· **Application of the substance / the mixture** Paint

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

ZEP UK Ltd

Tanhause Lane

Widnes Cheshire, WA8 0RR

United Kingdom

Tel: +44 (0)151 422 1000

Fax: +44 (0)151 422 1011

@: [info@zep.co.uk](mailto:info@zep.co.uk)

web: [www.zep.co.uk](http://www.zep.co.uk)

ZEP Industries BV

Vierlinghweg 30

4612 PN Bergen op Zoom

The Netherlands

Tel: (NL) + 31 164 250 100 (B) + 32 2 347 0117

Fax: (NL) + 31 164 266 710 (B) + 32 2 347 1395

@: [sales@zepbenelux.com](mailto:sales@zepbenelux.com)

ZEP ITALIA SRL

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04011 Aprilia (LT) - Italy

Tel: +39.06.926691

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@: [tecnico@zepeurope.com](mailto:tecnico@zepeurope.com)

Sito: [www.zep.it](http://www.zep.it)

· **Further information obtainable from:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· **1.4 Emergency telephone number:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

\* **SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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## · 2.2 Label elements

## · Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

## · Hazard pictograms



GHS02      GHS07

## · Signal word Danger

## · Hazard-determining components of labelling:

acetone

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  
butanone

## · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe vapours.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Additional information:

Restricted to professional users.

## · 2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

## · 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.

## · Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2219471330-49-xxxx	acetone  Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 012119486944-21-xxxx	propane  Flam. Gas 1, H220 Press. Gas C, H280	10-25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane (< 0.1% butadine)  Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane (<0.1% butadine)  Flam. Gas 1, H220 Press. Gas C, H280	5-10%
CAS: 64742-82-1 EINECS: 265-185-4 Reg.nr.: 01-211948049-33-XXXX	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	2.5-5%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-xxxx	butanone  Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2.5-5%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene (mix)  Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-5%

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· **Ingredients according to Detergents Regulation 648/2004/EC** For the wording of the listed hazard phrases refer to section 16.

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**\* 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; consult doctor in case of complaints.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **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:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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.
- **Additional information** Cool endangered receptacles with water spray.

**\* 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:**  
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:**  
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.  
See Section 13 for disposal information.

**\* SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.

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- 7.3 Specific end use(s) No further relevant information available.

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**\* 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:

**67-64-1 acetone (10-25%)**

WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (European Union)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

**106-97-8 butane (< 0.1% butadine) (5-10%)**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1,3-diene)
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**78-93-3 butanone (2.5-5%)**

WEL (Great Britain)	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm

**1330-20-7 xylene (mix) (2.5-5%)**

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

· DNELs

**67-64-1 acetone**

Oral	DNEL Long term-systemic	62 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	62 mg/kg human/day (consumer)
		186 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m3	200 mg/m3 (consumer)
		1,210 mg/m3 (worker)
	DNEL Acute-local mg/m3	2,420 mg/m3 (worker)

**64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral	DNEL Long term-systemic	26 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	26 mg/kg human/day (consumer)
		44 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m3	71 mg/m3 (consumer)
		330 mg/m3 (worker)

**78-93-3 butanone**

Oral	DNEL acute-systemic	31 mg/kg human/day (worker)
Dermal	DNEL Acute-systemic	412 mg/kg human/day (worker)
Inhalative	DNEL Acute-systemic mg/m3	106 mg/m3 (worker)

· PNECs

**67-64-1 acetone**

PNEC Freshwater mg/L	10.6 mg/L
PNEC Marinewater mg/L	1.06 mg/L
PNEC Marine water sediment	3.04 mg/Kg
PNEC Intermittent release	21 (mg/L)
PNEC Soil	33.3 mg/Kg

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**· Ingredients with biological limit values:**

**78-93-3 butanone (2.5-5%)**

BMGV (Great Britain)	70 $\mu\text{mol/L}$
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Medium: urine

Sampling time: post shift

Parameter: butan-2-one

**1330-20-7 xylene (mix) (2.5-5%)**

BMGV (Great Britain)	650 mmol/mol creatinine
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Medium: urine

Sampling time: post shift

Parameter: methyl hippuric acid

**· 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**· Respiratory protection:** Not required.

**· Protection of hands:**

**· 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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**· Not suitable are gloves made of the following materials:** Strong material 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:	Aerosol
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Colour:	According to product specification
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Odour:	Characteristic
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Odour threshold:	Not determined.
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pH-value:	Not determined.
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**· Change in condition**

Melting point/freezing point:	Undetermined.
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Initial boiling point and boiling range:	-44°C
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Flash point:	-42°C
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Flammability (solid, gas):	Not applicable.
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Ignition temperature:	>235°C
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Product is not selfigniting.
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· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	1.7 Vol %
Upper:	13 Vol %
· <b>Vapour pressure at 20°C:</b>	3500 hPa
· <b>Density at 20°C:</b>	0.843 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	63 %
EU-VOC:	532.0 g/l
EU-VOC	63.00 %
· <b>Solids content:</b>	30.1 %
· <b>9.2 Other information</b>	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 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:**

**67-64-1 acetone**

Oral	LD50	>3,000 mg/kg (Mouse) 5,800 mg/kg (Rat) >5,000 mg/kg (Rabbit)
Dermal	LD50	>15,800 mg/kg (Rat) >15,000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h LC50 / 48 h LC50 / 96 h (static)	76 mg/ltr (Rat) 2,262 mg/ltr (Daphnia magna (water flea)) 5,540 mg/ltr (fish) 100 mg/ltr (Pimephales promelas) 8,800 mg/ltr (Daphnia magna (water flea))
	EC 50 / 48 h	

**64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>3,160 mg/kg (Rabbit)

**78-93-3 butanone**

Oral	LD50	2,737 mg/kg (Rat)
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Dermal	LD50	5,000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	20 mg/ltr (Rat)
	EC50	>100 mg/ltr ( <i>Selenastrum capricornutum</i> (Algae))
	EC 50 / 48 h	>5,000 mg/ltr ( <i>Daphnia magna</i> (water flea))
	EC 50 / 96 h	>2,500 mg/ltr ( <i>Pimephales promelas</i> )
<b>1330-20-7 xylene (mix)</b>		
Oral	LD50	4,300 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rabbit)
Inhalative	LC50 / 4 h	6,350 mg/ltr (Rat)
	LC50 / 96 h	3.77-13.5 mg/ltr (fish)
	EC 50 / 48 h	7.4 mg/ltr ( <i>Daphnia magna</i> (water flea))

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** 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:**

**67-64-1 acetone**

COD	2.21 (mg O <sub>2</sub> / g product)
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- **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:**

Do not allow product to reach ground water, water course or sewage system.

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** Disposal must be made according to official regulations

- **European waste catalogue**

15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**\* SECTION 14: Transport information**

· <b>14.1 UN-Number</b>	UN1950
· <b>ADR, IMDG, IATA</b>	
· <b>14.2 UN proper shipping name</b>	1950 AEROSOLS
· <b>ADR</b>	AEROSOLS
· <b>IMDG</b>	AEROSOLS, flammable
· <b>IATA</b>	
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR</b>	
	
· <b>Class</b>	2 5F Gases.
· <b>Label</b>	2.1
· <b>IMDG</b>	
	
· <b>Class</b>	2 Gases.
· <b>Label</b>	2.1
· <b>IATA</b>	
	
· <b>Class</b>	2.1
· <b>Label</b>	2.1
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Gases.
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
· <b>Stowage Code</b>	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· <b>Segregation Code</b>	
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

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<b>· Transport/Additional information:</b>	
· <b>ADR</b>	IL
· <b>Limited quantities (LQ)</b>	Code: E0
· <b>Excepted quantities (EQ)</b>	Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>IMDG</b>	IL
· <b>Limited quantities (LQ)</b>	Code: E0
· <b>Excepted quantities (EQ)</b>	Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

\*

## SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;  
 Reg. (EC) n. 1907/2006 – Reach;  
 Reg. (EC) n. 2015/830 annex II of REACH;  
 Reg. (EC) n. 648/04 (Detergents);  
 Reg. (EC) n. 528/12 (Biocides BPR);  
 Reg. (EC) n. 1223/2009 (Cosmetics);  
 Dir. 06/08 ADR – RID - IMDG - IATA;  
 Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);  
 Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

**· Directive 2012/18/EU**

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

**· Seveso category P3a** FLAMMABLE AEROSOLS

**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t

**· 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	50-75

**· 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.

**· Relevant phrases**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

**· Department issuing SDS:**

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**Safety data sheet**  
**According to 1907/2006/EC, Article 31 REACH**

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**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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

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. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

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 Irrit. 2: Serious eye damage/eye irritation – Category 2

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

Asp. Tox. 1: Aspiration 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

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

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