

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

Printing date 30.10.2013

Version number 28

Revision: 30.10.2013

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

- **1.1 Product identifier**
- **Trade name:** *SPRING® PRO FLORIST DECO SPRAY VARIOUS COLOURS 400 ML*
- **Article number:** *SPR005-SPR084*
- **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** *Paint*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Spring From Holland B.V.
Cornelis Verolmeweg 12-14
NL- 2171 KV Sassenheim The Netherlands
Tel: +31 (0)252 231651
-
- Fax: +31 (0)252 231469*
e-mail info@springfromholland.nl
-
- **1.4 Emergency telephone number:** *+31 252 231651*

2 Hazards identification

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



GHS02 flame

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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

Has a narcotizing effect.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **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 GHS09

· **Signal word** Danger

· **Hazard statements**

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe spray.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Do not pierce or burn, even after use.

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

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

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

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains 2-butanone oxime, Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compds. with amides from diethylenetriamine and tall-oil fatty acids, Cobalt Carboxylate. May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 74-98-6	propane	12.5-20%
EINECS: 200-827-9	F+ R12	
Index number: 601-003-00-5	Flam. Gas 1, H220	
Reg.nr.: 01-2119486944-21-xxxx	Press. Gas, H280	

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		(Contd. of page 2)
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx	acetone Xi R36 F R11 R66-67 ----- Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	12.5-20%
CAS: 64742-49-0 EC number: 921-024-6 Index number: 649-328-00-1 Reg.nr.: 01-2119475514-35-xxxx	Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2) Xn R65 F R11 N R51/53 R66-67 ----- Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	12.5-20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane F+ R12 Flam. Gas 1, H220 Press. Gas, H280	10-12.5%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8 Reg.nr.: 01-2119485395-27-xxxx	isobutane F+ R12 Flam. Gas 1, H220 Press. Gas, H280	10-12.5%
CAS: 64742-82-1 EC number: 919-446-0 Index number: 649-330-00-2 Reg.nr.: 01-2119490979-12-xxxx	Naphtha (petroleum), hydrodesulfurized heavy (< 0,1 % benzol CAS nr. 71-43-2) Xn R65 N R51/53 R10-66-67 ----- Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	10-12.5%
CAS: 64742-49-0 EINECS: 265-151-9 Index number: 649-328-00-1 Reg.nr.: 01-2119475133-43-xxxx	Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2) Xn R65 Xi R38 F R11 N R51/53 R67 ----- Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	1-2.5%

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CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene  Xn R20/21  Xi R38 R10 <hr/>  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	1-2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119486773-24-xxxx	Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2)  Xn R65  Xi R37  N R51/53 R10-66-67 Carc. Cat. 2, Muta. Cat. 2 <hr/>  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  STOT SE 3, H335-H336	1-2.5%
CAS: 64742-48-9 EINECS: 265-150-3 Index number: 649-327-00-6	Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)  Xn R65 <hr/>  Acute Tox. 3, H331  Asp. Tox. 1, H304	1-2.5%
CAS: 95-63-6 EINECS: 202-436-9 Index number: 601-043-00-3 Reg.nr.: 01-2119472135-42-xxxx	1,2,4-trimethylbenzene  Xn R20  Xi R36/37/38  N R51/53 R10 <hr/>  Flam. Liq. 3, H226  Aquatic Chronic 2, H411  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.1-1%
CAS: 108-08-7 EINECS: 203-548-0 Index number: 601-008-00-2	2,4-dimethylpentane  Xn R65  Xi R38  F R11  N R50/53 R67 <hr/>  Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; STOT SE 3, H336	0.1-1%

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		(Contd. of page 4)
CAS: 108-87-2 EINECS: 203-624-3 Index number: 601-018-00-7 Reg.nr.: 01-2119556887-18-xxxx	<p><i>methylcyclohexane</i></p> <p> Xn R65  Xi R38  F R11  N R51/53 R67</p> <p>-----</p> <p> Flam. Liq. 2, H225  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; STOT SE 3, H336</p>	0.1-1%
CAS: 40027-38-1 EINECS: 254-754-2	<p><i>N-alkyl"oleyl"propeendiaminedioleaat</i></p> <p> Xn R22  Xi R38-41  N R50</p> <p>-----</p> <p> Eye Dam. 1, H318  Aquatic Acute 1, H400  Acute Tox. 4, H302; Skin Irrit. 2, H315</p>	0.1-1%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0 Reg.nr.: 01-2119480412-44-xxxx	<p><i>n-hexane</i></p> <p> Xn R48/20-62-65  Xi R38  F R11  N R51/53 R67 Repr. Cat. 3</p> <p>-----</p> <p> Flam. Liq. 2, H225  Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; STOT SE 3, H336</p>	0.1-1%
CAS: 96-29-7 EINECS: 202-496-6 Index number: 616-014-00-0 Reg.nr.: 01-2119539477-28-xxxx	<p><i>2-butanone oxime</i></p> <p> Xn R21-40  Xi R41  Xi R43</p> <p>-----</p> <p> Carc. 2, H351  Eye Dam. 1, H318  Acute Tox. 4, H312; Skin Sens. 1, H317</p>	0.1-1%
CAS: 222716-38-3	<p><i>Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compds. with amides from diethylenetriamine and tall-oil fatty acids</i></p> <p> Xn R48/22  Xi R38-41  Xi R43  N R50/53</p> <p>-----</p> <p> STOT RE 2, H373  Eye Dam. 1, H318  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Irrit. 2, H315; Skin Sens. 1, H317</p>	0.1-1%

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CAS: 13586-82-8 EINECS: 237-015-9	Cobalt Carboxylate  Xi R38  Xi R43  N R51/53 <hr/>  Aquatic Chronic 2, H411  Skin Irrit. 2, H315; Skin Sens. 1, H317	0.1-1%
CAS: 108-67-8 EINECS: 203-604-4 Index number: 601-025-00-5 Reg.nr.: 01-2119463878-19-xxxx	mesitylene  Xi R37  N R51/53 R10 <hr/>  Flam. Liq. 3, H226  Aquatic Chronic 2, H411  STOT SE 3, H335	0.1-1%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **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.

5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
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:** 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.

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7 Handling and storage

· 7.1 Precautions for safe handling

No special measures required.

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.

Protect against electrostatic charges.

Pressurized 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:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Protect from heat and direct sunlight.

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

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

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

106-97-8 butane

WEL ()	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)

1330-20-7 xylene

WEL ()	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV

· Ingredients with biological limit values:

1330-20-7 xylene

BMGV ()	650 mmol/mol creatinine
	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:

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Respiratory protection: Not required.

· Protection of hands: Not required.

· Material of gloves Not required.

· Penetration time of glove material Not required.

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· **Eye protection:** Not required.

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Aerosol
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value:	Not determined.
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· Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Not applicable, as aerosol.

· Flash point:	< 0 °C (< 32 °F) Not applicable, as aerosol.
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· Flammability (solid, gaseous):	Not applicable.
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· Ignition temperature:	200 °C (392 °F)
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· Decomposition temperature:	Not determined.
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· Self-igniting:	Product is not selfigniting.
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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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· Explosion limits:

· Lower:	0.6 Vol %
· Upper:	13.0 Vol %

· Vapour pressure at 20 °C (68 °F):	3500 hPa (2625 mm Hg)
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· Density at 20 °C (68 °F):	0.79651 g/cm ³ (6.647 lbs/gal)
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· Relative density	Not determined.
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· Vapour density	Not determined.
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· Evaporation rate	Not applicable.
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· Solubility in / Miscibility with water:

	Not miscible or difficult to mix.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity:

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· Solvent content:

· Organic solvents:	81.5 %
· EU-VOC:	700.1 g/l
· EU-VOC in %:	87.90 %

· Solids content:	18.5 %
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· 9.2 Other information	No further relevant information available.
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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** 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.

11 Toxicological information

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

· **LD/LC50 values relevant for classification:**

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	39 mg/m ³ (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>193 mg/m ³ (rat)
	LC50 / 4h	25.2 mg/l (rat)
	LC50 / 96 h	11.4 mg/l (fish)

106-97-8 butane

Inhalative	LC50 / 4 h	658000 mg/m ³ (rat)
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64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>11.6 mg/m ³ (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>193 mg/m ³ (rat)

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	22.1 mg/m ³ (rat)

64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	3592 mg/kg (rat) (OECD401)
Dermal	LD50	>3160 mg/kg (rab) (OECD402)
Inhalative	LC50 / 4 h	>15 mg/m ³ (rat)

64742-48-9 Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)

Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>2.8 mg/m ³ (rat)

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95-63-6 1,2,4-trimethylbenzene		
Oral	LD50	5000 mg/kg (rat)
108-87-2 methylecyclohexane		
Oral	LD50	2250 mg/kg (mouse)
110-54-3 n-hexane		
Oral	LD50	5000 mg/kg (mouse) n-Hexaan >5000 mg/kg (rat) Cyclohexaan
Dermal	LD50	3000 mg/kg (rab) n-Hexaan >2000 mg/kg (rabbit) Cyclohexaan
Inhalative	LC50	>10000 mg/m ³ (rat) n-Hexaan: LC50 (Rat, inademing, 4 u): >10000 mg/m ³
	LC50 / 48 h	55 mg/l (Leuciscus idus) Cyclohexaan
	LC50 / 96 h	2.5 mg/l (Pimephales promelas) n-Hexaan
96-29-7 2-butanone oxime		
Oral	LD50	2528 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 / 4 h	20 mg/m ³ (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

67-64-1 acetone	
EC50 / 48 h	8800 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (static)	5540 mg/l (fish)
64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)	
EC50 / 48 h	3 mg/l (daphnia magna)
EC50 / 72 h	30-100 mg/l (algae)
LC50 / 96 h	93-117 mg/l (fish)
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy (< 0,1 % benzol CAS nr. 71-43-2)	
EC50 / 48 h	>100 mg/l (daphnia magna)
LC50 / 96 h	>100 mg/l (fish)
64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)	
LC50	127-159 mg/l (Leuciscus idus)
1330-20-7 xylene	
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 mg/l (fish)

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64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2)

EC50 / 24 h	150 mg/l (daphnia magna)
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	3.77 mg/l (fish)

110-54-3 n-hexane

EC50 / 48 h	3.78 mg/l (Daphnia magna) cyclohexaan > 2 mg/l (daphnia magna) n-Hexaan
LC50	13.9 mg/l (rat) cyclohexaan: LC50 (Rat, indameing, 4 u): 13,9 mg/l

- **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:** 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.
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.

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.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging

- **Uncleaned packaging:**
- **Recommendation:** Non contaminated packagings may be recycled.

14 Transport information

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN1950
· 14.2 UN proper shipping name	
· ADR	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS
· IMDG	AEROSOLS
· IATA	AEROSOLS, flammable

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· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases.
· Label 2.1

· IMDG, IATA



· Class 2.1
· Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Gases.

· Danger code (Kemler):

-

· EMS Number:

F-D,S-U

· 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) IL
· Transport category 2
· Tunnel restriction code D

· UN "Model Regulation":

UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

* **15 Regulatory information**

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

* **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.
H331 Toxic if inhaled.

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

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- H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
 R11 Highly flammable.
 R12 Extremely flammable.
 R20 Harmful by inhalation.
 R20/21 Harmful by inhalation and in contact with skin.
 R36 Irritating to eyes.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R37 Irritating to respiratory system.
 R38 Irritating to skin.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** QHSE Department

· **Contact:** Mr. K. Smedeman

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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