



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL PTFE Lubricating Varnish Spray

Print date: 06.10.2014

Product code: 717229

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

##### 1.1. Product identifier

ADDINOL PTFE Lubricating Varnish Spray

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

###### Use of the substance/mixture

Aerosol - Lubricant, lubricants and release products.

##### 1.3. Details of the supplier of the safety data sheet

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-201	Telefax: +49 (0) 3461 845-561
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

**1.4. Emergency telephone number:** +49 (0) 3461 845-201 - This number is serviced during office hours.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable  
 R phrases:  
 Extremely flammable.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Vapours may cause drowsiness and dizziness.

###### GHS classification

Hazard categories:  
 Aerosol: Aerosol 1  
 Skin corrosion/irritation: Skin Irrit. 2  
 Serious eye damage/eye irritation: Eye Irrit. 2  
 Specific target organ toxicity - single exposure: STOT SE 3  
 Hazardous to the aquatic environment: Aquatic Chronic 3  
 Hazard Statements:  
 Extremely flammable aerosol.  
 Pressurised container: May burst if heated.  
 Causes serious eye irritation.  
 Causes skin irritation.  
 May cause drowsiness or dizziness.  
 Harmful to aquatic life with long lasting effects.

##### 2.2. Label elements

###### Hazardous components which must be listed on the label

Contains:  
 propan-2-ol; isopropyl alcohol; isopropanol  
 Hydro carbons, C6-C7, Isoalkanes, cyclics, < 5% n-Hexane  
 Hydro carbons, C7 n-Alkanes, Isoalkanes, Cyclenes  
 Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Signal word: Danger


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Pictograms:

GHS02-GHS07



#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H315	Causes skin 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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear suitable gloves and eye/face protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to a waste disposal system.

#### Additional advice on labelling

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

#### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures



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#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
203-448-7	butane	45 - 50 %
106-97-8	F+ - Extremely flammable R12	
601-004-00-0	Flam. Gas 1; H220	
200-827-9	propane	20 - 25 %
74-98-6	F+ - Extremely flammable R12	
601-003-00-5	Flam. Gas 1; H220	
	Titanium (IV) butoxide polymer	< 5 %
162303-51-7	Xi - Irritant R36	
	Eye Irrit. 2; H319	
203-523-4	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane	< 5 %
107-83-5	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-51-53	
601-007-00-7	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H304 H315 H336 H411	
921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	< 5 %
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
01-2119475514-35		
926-605-8	Hydro carbons, C6-C7, Isoalkanes, cyclics, < 5% n-Hexane	< 5 %
	F - Highly flammable, Xn - Harmful, N - Dangerous for the environment R11-51-53-65-66-67	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411	
01-2119486291-36		
927-510-4	Hydro carbons, C7 n-Alkanes, Isoalkanes, Cyclenes	< 5 %
	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
01-2119475515-33		
200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	10 - 12,5 %
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
203-806-2	cyclohexane	<= 0,1 %
110-82-7	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-017-00-1	Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H304 H315 H336 H400 H410	
203-777-6	n-hexane	< 0,5 %
110-54-3	Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	



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601-037-00-0

Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f \*\*\* H304 H373 \*\* H315 H336 H411

Full text of R and H phrases: see Section 16.

#### Further Information

DMSO-Extrakt < 3 %, IP 346.

Concentration of PCBs < 1mg/kg.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Move victim out of danger zone and lay down. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. Self-protection of the first aider.. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist. In case of breathing difficulties administer oxygen.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do not induce vomiting.

Rinse mouth thoroughly with water. Immediately get medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

following inhalation: drowsiness. Headache. Nausea.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. alcohol resistant foam.

#### Unsuitable extinguishing media

High power water jet.

### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Carbon black.

Vapours may form explosive mixtures with air.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.



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#### Additional information

Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. The vapours are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

##### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

##### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

##### 6.4. Reference to other sections

Refer to the provisions listed in Sections 8, 12 and 13.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

Work in well ventilated zones or use proper respiratory protection. Do not breathe gas/fumes/vapour/spray. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. To avoid risks to man and the environment, comply with the instructions for use.

###### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Heating causes rise in pressure with risk of bursting.

###### Further information on handling

People who suffer from asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

##### 7.2. Conditions for safe storage, including any incompatibilities

###### Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of dampness. Keep container tightly closed in a cool place. Keep away from sources of ignition - No smoking.

Please note: TRG 300, aerosol directive (75/324/EEC).

###### Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.  
Keep away from: Oxidizing agents.

###### Further information on storage conditions

Recommended storage temperature: 10 - 30°C. Do not store at temperatures over: 50°C.

##### 7.3. Specific end use(s)

Further information: refer to Technical Data Sheet.



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#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

###### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

###### Additional advice on limit values

source:

##### 8.2. Exposure controls



###### Appropriate engineering controls

Provide for sufficient ventilation and punctiform suction at critical points.

###### Protective and hygiene measures

Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

###### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

###### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Duration of wearing with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

###### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

###### Respiratory protection

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm



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#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state:	gaseous
Colour:	off-white
Odour:	characteristic

##### Test method

##### Changes in the physical state

Initial boiling point and boiling range:	< -20 °C
Flash point:	< -20 °C DIN EN ISO 2592

##### Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Lower explosion limits:	1,2 vol. %
Upper explosion limits:	12 vol. %
Ignition temperature:	> 200 °C DIN 51794
Density (at 20 °C):	0,610 g/cm <sup>3</sup> DIN 51757
Water solubility: (at 20 °C)	insoluble
Viscosity / kinematic:	not applicable

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

Stable with proper care and handling.

##### 10.2. Chemical stability

The product is chemically stable when handled and stored under normal conditions.

##### 10.3. Possibility of hazardous reactions

Ignition hazard.

Vapours may form explosive mixtures with air.

##### 10.4. Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharges. See protective measures under point 7 and 8.

##### 10.5. Incompatible materials

No data available

##### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Nitrogen oxides (NO<sub>x</sub>). Carbon black.

Vapours may form explosive mixtures with air.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

##### Acute toxicity



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No data available

Mixture not tested.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
106-97-8	butane				
	inhalative (4 h) gas	LC50	273000 ppm	Rat	GESTIS
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane				
	oral	LD50	> 5000 mg/kg	Rat.	
	dermal	LD50	> 2000 mg/kg	Rabbit.	
	inhalative (4 h) vapour	LC50	> 20 mg/l	Rat.	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	5280 mg/kg	Rat.	
	dermal	LD50	12800 mg/kg	Rabbit.	
	inhalative (4 h) vapour	LC50	47,5 mg/l	Rat.	

#### Irritation and corrosivity

Irritant effect on the eye: irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### Sensitising effects

No data available

#### STOT-single exposure

Kann Schläfrigkeit und Benommenheit verursachen.

#### Severe effects after repeated or prolonged exposure

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### Carcinogenic/mutagenic/toxic effects for reproduction

No data available

#### Specific effects in experiment on an animal

No data available

#### Further information

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available

Mixture not tested.





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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
64742-49-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane					
	Acute fish toxicity	LC50	11,40 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	30 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50	9640 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	crustacea toxicity	NOEC	13299 mg/l	2 d	Daphnia magna	
110-54-3	n-hexane					
	Acute fish toxicity	LC50	2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990

#### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not empty into drains or the aquatic environment.

#### 12.3. Bioaccumulative potential

No data available

##### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
107-83-5	hexane (containing < 5 % n-hexane (203-777-6)); 2-methylpentane	3,21
110-54-3	n-hexane	3,9

#### 12.4. Mobility in soil

Product is easily volatile. Product is difficult to dissolve in water.

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Must not be disposed of with domestic refuse. Do not empty into drains or the aquatic environment.

##### Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances  
Classified as hazardous waste.

##### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

##### Contaminated packaging

Waste disposal according to official state regulations.



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#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Transport category: 2  
 Tunnel restriction code: D

##### Other applicable information (land transport)

Quantities released: E0  
 Special provisions: 190 - 327 - 625  
 Transportation category: 2  
 Tunnel restriction code: B1D

##### Inland waterways transport (ADN)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L

##### Other applicable information (inland waterways transport)

Quantities released: E0  
 Special provisions: 190 327 625

##### Marine transport (IMDG)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
 Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 959



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Limited quantity: See SP277  
EmS: F-D, S-U

#### Other applicable information (marine transport)

Quantities released: E0  
Special provisions: 63, 190, 277, 327, 959

#### Air transport (ICAO)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

#### Other applicable information (air transport)

Passenger LQ: Y203  
Quantities released: E0  
Danger: Y203  
Special provisions: A145 - A153

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

Warning: Flammable gases.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

1999/13/EC (VOC): 95,264 % (581,11 g/l)

##### National regulatory information

Water contaminating class (D): 2 - water contaminating

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Full text of R phrases referred to under Sections 2 and 3

11 Highly flammable.  
12 Extremely flammable.  
36 Irritating to eyes.  
38 Irritating to skin.



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48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
50	Very toxic to aquatic organisms.
51	Toxic to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
62	Possible risk of impaired fertility.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

#### Full text of H statements referred to under Sections 2 and 3

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contractual relationship.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*