

according to Regulation (EC) No 1907/2006

### 372 Elektronik-Fett 07372020W

Print date: 28.06.2019

Product code: 1100418

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

## 1.1. Product identifier

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

## Use of the substance/mixture

Lubricant, lubrifiants and release products

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

Company name:	TUNAP GmbH & Co. KG	
Street:	Bürgermeister-Seidl-Str. 2	
Place:	D-82515 Wolfratshausen	
Telephone:	+49 (0) 8171/1600 - 0	Telefax: +49 (0) 8171/1600 - 40
e-mail:	sdb@tunap.com	
Internet:	www.tunap.com	
1.4. Emergency telephone	+49 (0) 30 30 686 790 (Giftnotruf Berlin)	
numbor		

number:

**SECTION 2: Hazards identification** 

# 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1 Skin corrosion/irritation: Skin 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 skin irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics

Danger

Signal word:

Pictograms:



# Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.



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#### Precautionary statements

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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.
P260	Do not breathe Aerosol.
P280	Wear Wear eye/face protection
P271	Use only outdoors or in a well-ventilated area.
P302+P352	IF ON SKIN: Wash with plenty of Water and soap
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P251	Do not pierce or burn, even after use.

#### 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

# Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	· · · · ·	·	
75-28-5	isobutane			25 - < 50 %
	200-857-2	601-004-00-0	01-2119485395-27	
	Flam. Gas 1, Liquefied	gas; H220 H280		
92128-66-0	Hydrocarbons, C6-C7, r	n-alkanes, isoalkanes cyclic, < 5% n-h	exane	5 - < 10 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2 H411			
64742-49-0	Hydrocarbons, C7, n-all	5 - < 10 %		
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2 H411			
74-98-6	propane	5 - < 10 %		
	200-827-9	601-003-00-5	01-2119486944-21	
	Flam. Gas 1, Liquefied			
67-63-0	2-Propanol	1 - < 3 %		
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2			
106-97-8	butane			1 - < 3 %
	203-448-7	601-004-00-0	01-2119474691-32	
	Flam. Gas 1, Liquefied			

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures



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#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After contact with skin

Wash with plenty of water. Change contaminated clothing.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

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

Headache, nausea, dizziness, fatigue, skin irritation

#### 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 (CO2). Foam. Extinguishing powder.

#### Unsuitable extinguishing media

Full water jet

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

Combustible. Vapours may form explosive mixtures with air.

# 5.3. Advice for firefighters

Use appropriate respiratory protection.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

## 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 recovered material as prescribed in the section on waste disposal.

## 6.4. Reference to other sections

See section 8.

# SECTION 7: Handling and storage

# 7.1. Precautions for safe handling

# Advice on safe handling

Do not breathe gas/fumes/vapour/spray.

# Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Vapours may form explosive mixtures with air.



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## Further information on handling

Avoid contact with skin and eyes.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

# Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

#### Further information on storage conditions

Protect from frost. Protect against direct sunlight.

## 7.3. Specific end use(s)

No information available.

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

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

## **DNEL/DMEL** values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% r	n-hexane					
Worker DNEL,	long-term	inhalation	systemic	2035 mg/m³			
Worker DNEL,	long-term	dermal	systemic	773 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	608 mg/m³			
Consumer DNEL, long-term dermal systemic 699 mg/kg				699 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	699 mg/kg bw/day			
64742-49-0	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics						
Worker DNEL,	long-term	inhalation	systemic	2085 mg/m³			
Worker DNEL, long-term		dermal	systemic	300 mg/kg bw/day			
Consumer DNEL, long-term		inhalation	systemic	447 mg/m³			
Consumer DNI	EL, long-term	dermal	systemic	149 mg/kg bw/day			
Consumer DNI	EL, long-term	oral	systemic	149 mg/kg bw/day			

#### Additional advice on limit values

a no restriction

b End of exposure or shift

c in long-term exposure: after several shifts

d prior to next shift

TWA (EC): time-weighted average



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#### U: Urea B: Blood

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# 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

DIN EN 166

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Suitable material: NBR (Nitrile rubber) Breakthrough time (maximum wearing time) 480min Thickness of the glove material 0,45 mm DIN EN 374

#### Skin protection

Only wear fitting, comfortable and clean protective clothing.

# **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Filtering device with filter or ventilator filtering device of type: AX

#### **Environmental exposure controls**

Observe legal regulations and provisions.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	blue
Odour:	solvent like

		100t motilio
pH-Value (at 20 °C): n	ot applicable	
Changes in the physical state		
Melting point: No informati	on available.	
Initial boiling point and boiling range:	-40 °C	
Sublimation point: No informati	on available.	
Softening point: No informati	on available.	
Flash point:	-80 °C	
Lower explosion limits:	1 vol. %	
Upper explosion limits:	9,4 vol. %	
Ignition temperature: No informati	on available.	
Vapour pressure: No informati	on available.	
Vapour pressure: No informati	on available.	
Density (at 20 °C):	0,796 g/cm³	DIN 51757

Test method



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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Partition coefficient:	No information available.	
Viscosity / dynamic:	No information available.	
Viscosity / kinematic:	No information available.	
Flow time:	No information available.	
Vapour density:	No information available.	
Evaporation rate:	No information available.	
Solvent separation test:	No information available.	
Solvent content:	No information available.	
0.2. Other information		
Solid content:	No information available.	

density: Data apply to technical substance. pressure: 3,5 bar (20°C)

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

# 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

## 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

#### Roop andy non-noe

10.5. Incompatible materials No information available.

#### 10.6. Hazardous decomposition products

No information available.

#### **Further information**

Do not mix with other chemicals.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

# Toxicocinetics, metabolism and distribution

No information available.

## Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
75-28-5	isobutane			-			
	inhalation vapour	LC50	1237 mg/l	Mouse.			
92128-66-0	Hydrocarbons, C6-C7, n-alkanes	, isoalkanes	cyclic, < 5% n-hexa	ne			
	oral	LD50	> 5000 mg/kg	Rat			
	dermal	LD50 mg/kg	Rat	Study report (1977)			
	inhalation (4 h) vapour	LC50	> 25,2 mg/l	Rat	Study report (1988)		
64742-49-0	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics						
	oral	LD50	5500 mg/kg	Rat			
	dermal LD50 > 2800 - 3100 mg/kg		> 2800 - 3100	Rat	Study report (1977)		
	inhalation (4 h) vapour	LC50	> 23,3 mg/l	Rat	Study report (1988)		
67-63-0	2-Propanol						
	oral	LD50	5280 mg/kg	Rat			
	dermal	LD50	> 2000 mg/kg	Rabbit			
	inhalation (4 h) vapour	LC50	47,5 mg/l	Rat			
106-97-8	butane						
	inhalation (4 h) gas	LC50	658 ppm	Rat	GESTIS		

## Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met. Vapours may cause drowsiness and dizziness.

#### Sensitising effects

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

# STOT-single exposure

May cause drowsiness or dizziness.

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

## Aspiration hazard

Based on available data, the classification criteria are not met.

### Specific effects in experiment on an animal

No information available.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source			
75-28-5	isobutane								
	Acute fish toxicity	LC50	91,42 mg/l	96 h	Fish, no other information	United States Environmental Protection A			
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200			
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200			
92128-66-0	Hydrocarbons, C6-C7, n-alka	anes, isoalkan	es cyclic, < 5% n-	hexane					
	Acute fish toxicity	LC50	> 1-10 mg/l	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50	10 - 30 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1995)			
	Acute crustacea toxicity	EC50	> 1-10 mg/l	48 h	Daphnia magna				
	Fish toxicity	NOEC	2,045 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)			
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM			
64742-49-0	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics								
	Acute fish toxicity	LC50	>1 - 10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM			
	Acute crustacea toxicity	EC50	>1 - 10 mg/l	48 h	Daphnia magna				
	Fish toxicity	NOEC	1,534 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)			
	Crustacea toxicity	NOEC	1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM			
74-98-6	propane								
	Acute fish toxicity	LC50	49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A			
	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200			
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200			
67-63-0	2-Propanol								
	Acute fish toxicity	LC50	9640 mg/l	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50	> 100 mg/l	72 h	Desmodesmus subspicatus				
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna				
106-97-8	butane								
	Acute fish toxicity	LC50	49,9 mg/l	96 h	Fish, no other information	United States Environmental Protection A			



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	Acute algae toxicity	ErC50	19,37 mg/l	96 h	Algae	USEPA OPPT Risk Assessment Division (200			
	Acute crustacea toxicity	EC50	69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200			

# 12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane			
	OECD Guideline 301 F	98%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-28-5	isobutane	1,09
92128-66-0	Hydrocarbons, C6-C7, n-alkanes, isoalkanes cyclic, < 5% n-hexane	3,4 - 5,2
74-98-6	propane	1,09
67-63-0	2-Propanol	0,05
106-97-8	butane	1,09

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6. Other adverse effects

No information available.

## Further information

Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

### Advice on disposal

Dispose of waste according to applicable legislation.

# 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 hazardous substances; hazardous waste

#### Waste disposal number of used product

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

# Waste disposal number of contaminated packaging



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150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

Land transport (ADR/RID)			
<u>14.1. UN number:</u>	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: Limited quantity:	190 327 344 625 1 I		
Excepted quantity:	E0		
Transport category:	2		
Tunnel restriction code:	D		
Inland waterways transport (ADN)			
<u>14.1. UN number:</u>	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: Special Provisions:	5F 190 327 344 625		
Limited quantity:	190 527 544 025		
Excepted quantity:	E0		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 1950		
14.2. UN proper shipping name:	AEROSOLS		
<u>14.3. Transport hazard class(es):</u>	2.1		
14.4. Packing group:	-		
Hazard label:	2.1		
Special Provisions:	63, 190, 277, 327, 344, 959		
Limited quantity: Excepted quantity:	1000 mL E0		
EmS:	F-D, S-U		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number:</u>	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		



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Passenger LQ:	Y203	
Excepted quantity:	E0	
IATA-packing instructions - Passenger:	203	
IATA-max. quantity - Passenger:	75 kg	
IATA-packing instructions - Cargo:	203 150 kg	
IATA-max. quantity - Cargo: 14.5. Environmental hazards	150 Kg	
ENVIRONMENTALLY HAZARDOUS:	no	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory information	<u> </u>	
Restrictions on use (REACH, annex XVII	I):	
Entry 28: isobutane; butane	, ,	
	kanes, isoalkanes cyclic, < 5% n-hexane; Hydrocarbons, C7, n-alkanes,	
iso-alkanes, cyclics		
2010/75/EU (VOC):	No information available.	
2004/42/EC (VOC):	No information available.	
Additional information		
Safety Data Sheet according to Regu	ulation (EC) No. 1907/2006 (REACH)	
National regulatory information		
Water contaminating class (D): Additional information	1 - slightly water contaminating	
	ontent of the product is less than 0.1%. It applies the annotation P.	
Classification and labeling as carcing		
SECTION 16: Other information		
Changes		
This data sheet contains changes fro	m the previous version in section(s): 1.	
Abbreviations and acronyms		
	ort des marchandises dangereuses par Route (European Agreement	
concerning the International Carriage		
•	nant le transport des marchandises dangereuses par chemin de fer	
IATA: International Air Transport Asso	tional Transport of Dangerous Goods by Rail)	
IMDG: International Maritime Code for		
	of Classification and Labelling of Chemicals	
	ting Commercial Chemical Substances	
ELINCS: European List of Notified Cl		
CAC: Chaminal Abotrate Camina (di		

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits

TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate



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Relevant H and EUH statements (number and full text)						
H220	Extremely flammable gas.					
H222	Extremely flammable aerosol.					
H225	Highly flammable liquid and vapour.					
H229	Pressurised container: May burst if heated.					
H280	Contains gas under pressure; may explode 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.					
H411	Toxic to aquatic life with long lasting effects.					
H412	Harmful to aquatic life with long lasting effects.					
Further Information						
present-day knowled named in this safety	on describes exclusively the safety requirements of the product and is based on our dge. The information is intended to give you advice about the safe handling of the product data sheet, for storage, processing, transport and disposal. The information cannot be products. In the case of mixing the product with other products or in the case of					

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

processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

data sheet.)