

according to Regulation (EC) No. 1907/2006

# freeprint® tray 385

Revision date: 17.12.2020

Product code: 925

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

## 1.1. Product identifier

freeprint® tray 385

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UFI:
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DXWX-G0QM-C00X-6HUH

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

#### Use of the substance/mixture

Light-curing single component material for the generative production of individual impression trays.

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

Company name:	DETAX GmbH	
Street:	Carl-Zeiss-Straße 4	
Place:	D-76275 Ettlingen	
Telephone:	+49 7243/510-0	Telefax: +49 7243/510-100
e-mail:	post@detax.com	
Internet:	www.detax.com	
Responsible Department:	This number is only obtainable d	uring office hours
	(Monday - Thursday 8.00 a.m	5.00 p.m., Friday 8.00 a.m 4.00 p.m.)
1.4. Emergency telephone	+1-800-424-9300 (CHEMTREC)	worldwide)

#### number:

#### **SECTION 2: Hazards identification**

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

### Regulation (EC) No. 1907/2006

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 2; H361 STOT SE 3; H335 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

#### Regulation (EC) No. 1907/2006

#### Hazard components for labelling

isopropylidenediphenol peg dimethacrylate 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate @0000030484.1 Hydroxy propyl methacrylate tetrahydrofurfuryl methacrylate THFMA purified grade diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide @0000030484.2

Signal word:

Warning

#### Pictograms:



### **Hazard statements**

H	1315	
H	1317	

Causes skin irritation. May cause an allergic skin reaction.



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H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H361	Suspected of damaging fertility or the unborn child.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statemer	nts	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P501	Dispose of contents/ container in accordance with local and national regulations.	
2.3. Other hazards		

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Chemical characterization

Mixture of acrylic/ methacrylic resins with auxilliary matters.

# Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No.			
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo	-3,14-dioxa-5,12-diazahe	kadecane-1,16-diyl bismethacrylate	20 - < 40 %
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 2;	H317 H411		
41637-38-1	isopropylidenediphenol peg dimeth	acrylate		20 - < 40 %
	609-946-4		01-2119980659-17	
	Aquatic Chronic 4; H413			
72829-09-5	1,12-Dodecanediol Dimethacrylate			5 - < 20 %
	276-900-4		01-2120756306-53	
	Skin Sens. 1B, Aquatic Acute 1, Ac	uatic Chronic 1; H317 H4	00 H410	
27813-02-1	Hydroxy propyl methacrylate	0.1 - < 5 %		
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H3	17		
2455-24-5	tetrahydrofurfuryl methacrylate THI	-MA purified grade		0.1 - < 5 %
	219-529-5		01-2120748481-53	
	Repr. 1B, Skin Sens. 1, Aquatic Ch	ronic 3; H360 H317 H412	2	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)ph	osphine oxide		0.1 - < 5 %
	278-355-8	015-203-00-X	01-2119972295-29	
	Repr. 2, Skin Sens. 1B, Aquatic Ch	ironic 2; H361 H317 H411	•	
868-77-9	2-hydroxyethyl methacrylate		0.1 - < 5 %	
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens.	1; H315 H319 H317		

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

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# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Cond	2. Limits, M-factors and ATE	
72869-86-4	276-957-5	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	20 - < 40 %
	dermal: LD50	) = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
41637-38-1	609-946-4	isopropylidenediphenol peg dimethacrylate	20 - < 40 %
	dermal: LD50	) = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
72829-09-5	276-900-4	1,12-Dodecanediol Dimethacrylate	5 - < 20 %
	oral: LD50 =	>2000 mg/kg	
27813-02-1	248-666-3	Hydroxy propyl methacrylate	0.1 - < 5 %
	dermal: LD50	) = >5000 mg/kg; oral: LD50 = >2000 mg/kg	
75980-60-8	278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	0.1 - < 5 %
	dermal: LD50	) = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0.1 - < 5 %
	dermal: LD50	) = >5000 mg/kg; oral: LD50 = 5564 mg/kg	

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

# After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

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

No information available.

## 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

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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



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

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### Other information

Absorb with liquid-binding material (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

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

### Advice on safe handling

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

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Hints on joint storage

Keep away from spontaneous flammable or combustible substances.

#### Further information on storage conditions

Keep only in the original container in a dry and well-ventilated place, away from foodstuffs. Keep away from all kind of ligth. An inert gas blanket should not be applied, because the stability of the product depends on the presence of oxygen (air).

# 7.3. Specific end use(s)

Light-curing material for the generative production of individual impression trays. For use by trained specialist staff.

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

## 8.1. Control parameters

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# **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Worker DNEL	, long-term	inhalation	systemic	0,822 mg/m³
Worker DNEL, long-term		dermal	systemic	0,233 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,145 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,0833 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	0,0833 mg/kg bw/day

## 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.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

### 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable are gloves of the following material: Butyl caoutchouc (butyl rubber)

#### Skin protection

Wear suitable protective clothing.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

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

## 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid: green faintly like esters	
		Test method
Melting point/freezing point:	not determ	lined
Boiling point or initial boiling point and	not determ	lined
boiling range:		
Flammability		
Solid/liquid:	not applie	
Gas:	not applie	
Lower explosion limits:	not determ	lined
Upper explosion limits:	not determ	
Flash point:	>10	0 °C DIN 51755
Decomposition temperature:	>=19	0° 00
pH-Value:	not determ	lined



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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.		
Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:	not determined		
Vapour pressure:	<1 hPa		
(at 20 °C)			
Density (at 20 °C):	1,09 g/cm³	DIN 51757	
Relative vapour density:	not determined		
9.2. Other information			
Information with regard to physical hazard clas	SSES		
Self-ignition temperature			
Solid:	not applicable		
Gas:	not applicable		
Oxidizing properties			
Not oxidizing.			
Other safety characteristics			
Evaporation rate:	not determined		
Solid content:	not determined		

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Reacts with : strong oxidising agents, strong alcaline or acidic materials.

# 10.4. Conditions to avoid

Ultra-violet ligth and dayligth initiate polymerisation of the product. Therefore keep only in tigthly closed containers away from any sources of ligth at 15°C - 28°C / 59°F - 82 °F.

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No. 1907/2006

# Acute toxicity

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

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CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
72869-86-4	7,7,9(or 7,9,9)-trimet	hyl-4,13-dioxo-	3,14-dioxa-5	,12-diazahexadeca	ne-1,16-diyl bismethacrylate				
	oral	LD50 mg/kg	>5000	Rat	OECD 401				
	dermal	LD50 mg/kg	>2000	Rat	OECD 402				
41637-38-1	isopropylidenedipher	nol peg dimetha	icrylate						
	oral	LD50 mg/kg	>2000	Rat					
	dermal	LD50 mg/kg	>2000	Rat					
72829-09-5	1,12-Dodecanediol	Dimethacrylate							
	oral	LD50 mg/kg	>2000	Rat					
27813-02-1	Hydroxy propyl meth	acrylate							
	oral	LD50 mg/kg	>2000	Rat	OECD 401				
	dermal	LD50 mg/kg	>5000	Rabbit					
75980-60-8	diphenyl(2,4,6-trimet	hylbenzoyl)pho	sphine oxide						
	oral	LD50 mg/kg	>5000	Rat					
	dermal	LD50 mg/kg	>2000	Rat					
868-77-9	2-hydroxyethyl meth	acrylate							
	oral	LD50 mg/kg	5564	Rat					
	dermal	LD50 mg/kg	>5000	Rabbit					

## Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

# Sensitising effects

May cause an allergic skin reaction. (7,7,9(or 7,9,9) -trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate; 1,12-Dodecanediol Dimethacrylate; Hydroxy propyl methacrylate; tetrahydrofurfuryl methacrylate THFMA purified grade; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; 2-hydroxyethyl methacrylate)

# Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child. (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation.

#### 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.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards

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arising from the substance or mixture!

# **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4	,13-dioxo-3,	,14-dioxa-5,1	2-diazah	exadecane-1,16-diyl bis	methacrylate	
	Acute fish toxicity	LC50 mg/l	10,1	96 h			OECD 203
	Acute algae toxicity	ErC50 mg/l	0,21	72 h			OECD 201
	Acute crustacea toxicity	EC50 mg/l	>1,2	48 h	Daphnia magna (Big water flea)	OECD 202	
41637-38-1	isopropylidenediphenol pe	eg dimethac	rylate	_			
	Acute fish toxicity	LC50 mg/l	>100	96 h			
	Acute crustacea toxicity	EC50 mg/l	>100	48 h			
72829-09-5	1,12-Dodecanediol Dimet	hacrylate					
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia		
27813-02-1	Hydroxy propyl methacryl	ate					
	Acute fish toxicity	LC50	493 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	>97,2	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
2455-24-5	tetrahydrofurfuryl methaci	ylate THFM	1A purified gra	ade			
	Acute fish toxicity	LC50 mg/l	34,7	96 h		GESTIS	
75980-60-8	diphenyl(2,4,6-trimethylbe	enzoyl)phosj	phine oxide				
	Acute algae toxicity	ErC50 mg/l	>2,01	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 mg/l)	>1000	3 h	Activated sludge		
868-77-9	2-hydroxyethyl methacryla	ate					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oryzias latipes		OECD 203
	Acute algae toxicity	ErC50	836 mg/l	72 h	Selenastrum capricornutum		OECD 201
	Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna		OECD 202

# 12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
27813-02-1	Hydroxy propyl methacrylate						
	OECD	94%	28				
	Readily biodegradable (according to OECD criteria).						
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide						
		0-10%	28				
	Not readily biodegradable (according to OECD criteria)						
868-77-9	2-hydroxyethyl methacrylate						
		92-100%	14				
	Readily biodegradable (according to OECD criteria).						

## 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	3,39
27813-02-1	Hydroxy propyl methacrylate	0,97
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1

## BCF

CAS No	Chemical name	BCF	Species	Source
	diphenyl(2,4,6-trimethylbenzoyl)phosphi ne oxide		Cyprinus carpio (Common Carp)	

#### 12.4. Mobility in soil

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. Not identivied as PBT/ vPvB substances

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

## Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**



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Land transport (ADR/RID) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) No dangerous good in sense of this transport regulation. 14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.6. Special precautions for user No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments** No dangerous good in sense of this transport regulation.

## **SECTION 15: Regulatory information**

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

EU regulat	ory info	rmation
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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

#### National regulatory information

Employment restrictions:

Water hazard class (D): Skin resorption/Sensitization: under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 3 - highly hazardous to water Causes allergic hypersensitivity reactions.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions

## 15.2. Chemical safety assessment

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

# **SECTION 16: Other information**

#### 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

## Classification for mixtures and used evaluation method according to Regulation (EC) No. 1907/2006

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 3; H412	Calculation method

### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. 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.)