

according to Regulation (EC) No 1907/2006

TIP TOP ECLON EP 2K HARDENER V-5795

Revision date: 31.03.2022

Product code: 00359-1265

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

1.1. Product identifier

TIP TOP ECLON EP 2K HARDENER V-5795

Art.-No.

580 1010

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

Use of the substance/mixture	
------------------------------	--

Hardener

1.3. Details of the supplier of the safety data sheet

Company name:	TIP TOP Oberflaechenschutz Elbe GmbH		
Street:	Heuweg 4		
Place:	D-06886 Wittenberg		
Telephone:	+49(0)3491/635-50	Telefax: +49(0)3491/635-552	
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de		
<u>1.4. Emergency telephone</u> number:	INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/ Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a week)		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Xylene (mixed isomers) 1-Methoxy-2-propanol

4-Methylpentan-2-one

Fatty acids, C18-unsaturated, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Signal word:

Pictograms:



Hazard statements

H226 H315 Flammable liquid and vapour. Causes skin irritation.



according to Regulation (EC) No 1907/2006

TIP	TOP	FCI ON	FP	2K	HARDENER	V-5795
	IUF	LOLON		211		V-J/JJ

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H317 May cause an allergic skin reaction.		
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary stateme	nts	
P202	Do not handle until all safety precautions have been read and understood.	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe vapour.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P273	Avoid release to the environment.	

2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Polyaminoamide



according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•		
1330-20-7	Xylene (mixed isomers)			12,5 - 20 %
	215-535-7	601-022-00-9	01-2119488216-32	
		Acute Tox. 4, Skin Irrit. 2, Eye Irrit. H226 H332 H312 H315 H319 H33		
107-98-2	1-Methoxy-2-propanol			10 - 12,5 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H	1226 H336		
64742-95-6	Solvent naphta (petroleum)		5 - 10 %
	918-668-5	649-356-00-4	01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, 5 H411 EUH066	STOT SE 3, Asp. Tox. 1, Aquatic C	hronic 2; H226 H335 H336 H304	
100-41-4	Ethyl benzene	1 - < 5 %		
	202-849-4	601-023-00-4	01-2119489370-35	
	Flam. Liq. 2, Acute Tox. 4, H412			
108-10-1	4-Methylpentan-2-one	2,5 - 5 %		
	203-550-1	606-004-00-4	01-2119473980-30	
	Flam. Liq. 2, Carc. 2, Acute H335 H336 EUH066	e Tox. 4, Eye Irrit. 2, STOT SE 3, S	TOT SE 3; H225 H351 H332 H319	
7779-90-0	Trizinc bis(orthophosphate	1 - 2,5 %		
	231-944-3	030-011-00-6	01-2119485044-40	
	Aquatic Acute 1, Aquatic C			
1314-13-2	Zinc oxide	1 - 2,5 %		
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic C			
162627-17-0	Fatty acids, C18-unsaturated, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine			< 0,5 %
	605-296-0		01-2119970640-38	
	Skin Sens. 1A; H317			

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

Specific	Conc.	I imits.	M -factors	and ATF
opecific	00110.	Liiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	M-lactors	

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
1330-20-7	215-535-7	Xylene (mixed isomers)	12,5 - 20 %
	inhalation: ATE	= 11 mg/l (vapours); dermal: ATE = 1100 mg/kg	
100-41-4	202-849-4	Ethyl benzene	1 - < 5 %
	inhalation: LC50 = 17,2 mg/l (vapours); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg		
108-10-1	203-550-1	4-Methylpentan-2-one	2,5 - 5 %
	inhalation: ATE	11 mg/l (vapours)	
1314-13-2	215-222-5	Zinc oxide	1 - 2,5 %
	Aquatic Acute 1 Aquatic Chronic		

Further Information

According to note P to the directive 67/548/EEC, "Solvent naphta (petroleum)" is not to be classified as



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"carcinogenic" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately. Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. Keep warm and calm injured person. If patient is not breathing, apply artificial respiration. Seek medical treatment immediately.

After contact with skin

In case of contact with skin wash off immediately with soap and water. Do not use solvents or thinners.

After contact with eyes

Remove contact lens.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

After ingestion

Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Summon a doctor immediately. Induce vomiting only upon the advice of a physician.

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx). High smoke development

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Vapours are heavier than air and spread along ground.



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The vapour/air mixture is explosive, even in empty, uncleaned receptacles. Cool containers at risk with water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away sources of ignition. Ensure adequate ventilation. Remove persons to safety.

For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.

For emergency responders

In case of vapour formation use respirator. Use personal protective clothing. Use only explosion-proof equipment.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Shovel into suitable container for disposal. Clean contaminated surface thoroughly.

6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8). Informations for disposal look up chapter 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not wear contact lenses when handling the product. Keep container tightly closed. Vapours are heavier than air and spread along ground. Keep a good ventilation and air-exhaust at the place of work. Do not empty container under pressure. No pressure tank!

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Do not smoke. Take precautionary measures against static discharges.

Use only explosion-proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place. Pay attention to anti-explosion rules. Take precautionary measures against static discharges.

Take precautionary measures against static discharges

Storage temperature between 15°C to 30°C



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Hints on joint storage

Incompatible with: strong oxidizing agents strong acids and strong bases

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Hardener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	
		150	568		STEL (15 min)	
100-41-4	Ethylbenzene	100	442		TWA (8 h)	
		200	884		STEL (15 min)	
108-10-1	Methyl isobutyl ketone (MIBK)	20	83		TWA (8 h)	
		50	208		STEL (15 min)	
1330-20-7	Xylene, mixed isomers	50	221		TWA (8 h)	
		100	442		STEL (15 min)	
1314-13-2	Zinc oxide, fume (Respirable Fraction)	-	2		TWA (8 h)	
		-	10		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
100-41-4	Ethyl benzene	Mandelic acid and phenylglyoxylic acid	0.7 g/g		End of shift at end of workweek
108-10-1	Methyl isobutyl ketone (MIBK; 4-methylpentan-2-one)	МІВК	1 mg/L	Urine	End of shift

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

Eye/face protection

Tightly fitting goggles (EN 166).

Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by



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This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the

recommendations given by the manufacturer of protective gloves.

Skin protection

Solvent-resistant apron (EN 467).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	Various	
Odour:	Characteristic	
		Test method
pH-Value:	n. d.	
Changes in the physical state		
Melting point/freezing point:	n. d.	
Boiling point or initial boiling point and boiling range: Sublimation point:	120 °C	(*)
Softening point:	n.a.	
	n. d.	
Flash point:		DIN 53213
Sustaining combustion:	Sustaining combustion	
Flammability Solid/liquid:	n.a.	
Explosive properties The product is considered non-explos	ive; nethertheless explosive vapour/air mixture can be	e generated.
Lower explosion limits:	1,02 vol. %	(*)
Upper explosion limits:	13,7 vol. %	(*)
Auto-ignition temperature:	287 °C	(*)
Self-ignition temperature		
Solid: Gas:	n.a. n.a.	
	n.a. n. d.	
Decomposition temperature:		
Vapour pressure: (at 20 °C)	2,43 hPa	
Density (at 20 °C):	1,37 g/cm³	
Bulk density:	n.a.	
Water solubility:	Partially miscible	
Solubility in other solvents n. d.		
Partition coefficient n-octanol/water:	n. d.	
Viscosity / dynamic:	n. d.	
Viscosity / kinematic:	n. d.	



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Flow time: (at 20 °C)	n. d.					
Relative vapour density:	n. d.					
Evaporation rate:	n. d.					
Solvent separation test:	n. d.					
Solvent content:	35 %					
9.2. Other information						
Solid content:	65 %					
(*) 1-Methoxy-2-propanol						

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactions with acids, alkalies and oxidising agents.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Vapour/air mixtures are explosive at intensive warming. Heating can release vapours which can be ignited.

10.5. Incompatible materials

Strong oxidizing agents Strong acids and strong bases

10.6. Hazardous decomposition products

No hazardous decomposition products known. Fire may produce: Carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met. No toxical dates available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Causes skin irritation. Causes serious eye irritation.

Eye irritation: Not classified.

Sensitising effects

May cause an allergic skin reaction. (Fatty acids, C18-unsaturated, dimers, reaction products with N, N-dimethyl-1,3-propanediamine and 1,3-propanediamine)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (4-Methylpentan-2-one) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.



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STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers))

Aspiration hazard

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

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Components of the product may be absorbed into the body through the skin.

Contact with eyes may cause irritation.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Attention. Beware, danger of aspiration!

SECTION 12: Ecological information

12.1. Toxicity

Ecological dates are not available.

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

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

Hazard to waters.

Further information

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal. Can be incinerated, when in compliance with local regulations.

List of Wastes Code - residues/unused products



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080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	Paint
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L / 30 kg
Excepted quantity: Transport category:	E1 3
Hazard No:	30
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	Paint
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L / 30 kg
Excepted quantity:	E1
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1263
14.2. UN proper shipping name:	Paint (Trizinc bis(orthophosphate))
<u>14.3. Transport hazard class(es):</u>	3
14.4. Packing group:	III
Hazard label:	3
Marine pollutant:	Yes



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Limited quantity:	5 L / 30 kg					
Excepted quantity: EmS:	E1 F-E, S-E					
Air transport (ICAO-TI/IATA-DGR)						
<u>14.1. UN number:</u>	UN 1263					
14.2. UN proper shipping name:	Paint					
14.3. Transport hazard class(es):	3					
14.4. Packing group:	111					
Hazard label:	3					
Limited quantity Passenger:	10 L					
Passenger LQ:	Y344					
Excepted quantity:	E1					
IATA-packing instructions - Passenger:		355 60 L				
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:		366				
IATA-max. quantity - Cargo:		220 L				
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	Yes		¥2			

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU regulatory	information use (REACH, annex XVII):	
	try 28, Entry 40, Entry 75	
2004/42/EC (V	'OC):	472 g/l
Information acc (SEVESO III):	cording to 2012/18/EU	P5c FLAMMABLE LIQUIDS
Additional i	information:	E2
National regul	atory information	
Employment re	estrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard o	class (D):	2 - obviously hazardous to water
15.2 Chemical sa	afety assessment	

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.



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SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,6,7,9,10,11,12,14,15.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

- RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
- ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
- IMDG = International Maritime Code for Dangerous Goods
- IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

- REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
- CAS = Chemical Abstract Service
- EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		



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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.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Further Information		
	as well as 10 to 12, do partly not refer to the use and the regular employing of the product t information on use and on product), but to liberation of major amounts in case of larities.	

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

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