

according to Regulation (EC) No 1907/2006

## 979 Injector Direct Clean Petrol MF97900300A

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

#### 1.1. Product identifier

979 Injector Direct Clean Petrol MF97900300A

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

#### Use of the substance/mixture

Additive

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

Company name: TUNAP Deutschland Vertriebs GmbH & Co. Betriebs 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)

number:

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

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

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

Hazard categories:

Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 1

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause drowsiness or dizziness.

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Toxic to aquatic life with long lasting effects.

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

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

Signal word: Danger

Pictograms:







GB - EN



Revision date: 23.05.2017

## **Hazard statements**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.



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H336	May cause drowsiness or dizziness.	
H372	Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary stateme	nts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe vapour.	
P280	Wear eye/face protection.	
P262	Do not get in eyes, on skin, or on clothing.	
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.	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P314	Get medical advice/attention if you feel unwell.	
P273	Avoid release to the environment.	

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

## 3.2. Mixtures

## **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regula	tion (EC) No. 1272/2008 [CLP]	•		
1634-04-4	tert-butyl methyl ether, 2-methoxy-	2-methylpropane, MTBE		25 - < 50 %	
	216-653-1	603-181-00-X			
	Flam. Liq. 2, Skin Irrit. 2; H225 H3	15			
64742-82-1	Hydrocarbons, C9-C12, n-alkanes	, isoalkanes, cyclics, aromatics (2-25	%)	25 - < 50 %	
	919-446-0		01-2119458049-33		
	Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066				
	Oxirane, 2-ethyl-, homopolymer, 3	C13-rich	5 - < 10 %		
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Ch				
173140-85-7	Oxirane, ethyl-, homopolymer, monoisotridecyl ether				
	Skin Irrit. 2; H315				
67-56-1	methanol				
	200-659-6	603-001-00-X		0.1 - < 1 %	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370				

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

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## **General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.



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## After inhalation

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

#### 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. Call a POISON CENTER. Symptoms can occur only after several hours.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Unsuitable extinguishing media

High power water jet.

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

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

## 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. 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**

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protection equipment.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

#### 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). Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 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**



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#### 7.1. Precautions for safe handling

#### Advice on safe handling

Observe instructions for use.

Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

When using do not eat, drink, smoke, sniff.

Wear personal protection equipment (refer to section 8).

## Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

#### 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. Observe legal regulations and provisions.

#### Advice on storage compatibility

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

#### Further information on storage conditions

Store in a cool dry place. Observe legal regulations and provisions.

#### 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
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
1634-04-4	Methyl-tert-butyl ether	50	183,5		TWA (8 h)	WEL
		100	367		STEL (15 min)	WEL

## 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

U: Urea

#### 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

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.



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#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

**DIN EN 166** 

#### Hand protection

Protect skin by using skin protective cream. 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

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

#### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

#### **Environmental exposure controls**

No information available.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
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Physical state: liquid

Colour:

Odour: ethereal

Test method

pH-Value (at 20 °C): not applicable

Changes in the physical state

Melting point:

No information available.

Initial boiling point and boiling range: 55 °C

Sublimation point:

Softening point:

No information available.

No information available.

No information available.

Flash point: 9 °C ISO 3679

Lower explosion limits: 0,6 vol. %
Upper explosion limits: 8,4 vol. %
Ignition temperature: No information available.

Vapour pressure:

No information available.

Density (at 20 °C): 0,775 g/cm³ DIN 51757

Water solubility: insoluble

Partition coefficient: No information available.

Viscosity / dynamic: No information available. DIN 53019-1

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Viscosity / kinematic: No information available. DIN EN ISO 3104

(at 40 °C)

Flow time:

Vapour density:

No information available.

Evaporation rate:

No information available.

No information available.

Solvent separation test:

No information available.

No information available.

No information available.

9.2. Other information

Solid content: No information available.

#### **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

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

#### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

#### **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	
1634-04-4	tert-butyl methyl ether, 2-methoxy-2-					
	oral	LD50	3866 mg/kg	Rat		
	dermal	LD50	> 2000 mg/kg	Rat		
	inhalative (4 h) vapour	LC50	85 mg/l	Rat		
64742-82-1	-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)					
	oral	LD50 mg/kg	> 15000	Rat	OECD 401	
	dermal	LD50	3400 mg/kg	Rabbit	OECD 402	
	inhalative (4 h) vapour	LC50	13100 mg/l	Rat	OECD 403	
	Oxirane, 2-ethyl-, homopolymer, 3-aminopropyl C11-14-isoalkyl ethers, C13-rich					
	oral	LD50	> 5000 mg/kg	Rat		
	dermal	LD50	> 2000 mg/kg	Rabbit		
67-56-1	methanol					
	oral	LD50	5628 mg/kg	Ratte		
	dermal	LD50	17100 mg/kg	Kaninchen		
	inhalative vapour	LC50	79,43 mg/l	Maus		
	inhalative aerosol	ATE	0,5 mg/l			

#### Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Caution if victim vomits: Risk of aspiration! Vapours may cause drowsiness and dizziness. After skin contact: Irritant.

## 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 indications of human carcinogenicity exist.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

## STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

#### STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

## **Aspiration hazard**

May be fatal if swallowed and enters airways. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

## Specific effects in experiment on an animal

No information available.

#### Additional information on tests

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

## **SECTION 12: Ecological information**



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#### 12.1. Toxicity

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

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source				
1634-04-4	tert-butyl methyl ether, 2-me	tert-butyl methyl ether, 2-methoxy-2-methylpropane, MTBE								
	Acute fish toxicity	LC50	672 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)					
	Acute algae toxicity	ErC50	> 800 mg/l	72 h	Desmodesmus subspicatus.					
	Acute crustacea toxicity	EC50	651 mg/l	48 h	Daphnia magna					
64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)									
	Acute fish toxicity	LC50	10 - 30 mg/l	96 h	Leuciscus idus (golden orfe)					
	Acute algae toxicity	ErC50	4,6 - 10 mg/l	72 h	Pseudokirchneriella subcapitata					
	Acute crustacea toxicity	EC50	10 - 22 mg/l	48 h	Daphnia magna					
	Oxirane, 2-ethyl-, homopolyi	mer, 3-aminop	ropyl C11-14-isoal	kyl ethers	s, C13-rich					
	Acute fish toxicity	LC50	>1 - 10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)					
	Acute crustacea toxicity	EC50	>1 mg/l	48 h	Daphnia magna					
67-56-1	methanol									
	Acute fish toxicity	LC50	11850 mg/l	96 h	Lepomis macrochirus					
	Acute algae toxicity	ErC50	20300 mg/l	96 h	Pseudokirchneriella subcapitata					
	Acute crustacea toxicity	EC50	10000 mg/l	48 h	Daphnia magna					

## 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1634-04-4	tert-butyl methyl ether, 2-methoxy-2-methylpropane, MTBE	0,94
67-56-1	methanol	-0,74

## 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

#### 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

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



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

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation,

supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and

mother liquors; hazardous waste

#### Waste disposal number of used product

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation,

supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and

mother liquors; 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

hazardous substances; hazardous waste

#### 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)

**14.1. UN number:** UN1993

**14.2. UN proper shipping name:** FLAMMABLE LIQUIDS, N.O.S. (@000000001015, Hydrocarbons,

C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

## Other applicable information (land transport)

Limited quantity: E2

## Inland waterways transport (ADN)

**14.1. UN number:** UN1993

14.2. UN proper shipping name: FLAMMABLE LIQUIDS, N.O.S. (@00000001015, Hydrocarbons,

C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1

Special Provisions: 274 601 640C

Limited quantity: 1 L

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

Limited quantity: E2

#### Marine transport (IMDG)

**14.1. UN number**: UN1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (tert-butyl methyl ether, Hydrocarbons,

C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

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14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Marine pollutant:YesSpecial Provisions:274Limited quantity:1 LEmS:F-E. S-E

#### Other applicable information (marine transport)

Limited quantity: E2

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (tert-butyl methyl ether, Hydrocarbons,

C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %))

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Special Provisions:A3Limited quantity Passenger:1 L

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

## Other applicable information (air transport)

Limited quantity: E2 Passenger-LQ: Y341

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

Danger releasing substance: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %

## 14.6. Special precautions for user

Warning: Combustible liquids

#### 14.7. Transport in bulk according to Annex II of Marpol 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

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

2010/75/EU (VOC): No information available. 2004/42/EC (VOC): No information available.

## **Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:

Calculation method.

#### National regulatory information

Water contaminating class (D): 2 - water contaminating



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#### **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,15.

#### 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)

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

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

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

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

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

Toxic in contact with skin. H311 Causes skin irritation. H315 Causes serious eye irritation. H319

Toxic if inhaled. H331

H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

Causes damage to organs (Central nervous system) through prolonged or repeated H372

exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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