

Revision date: 13.11.2017

according to Regulation (EC) No 1907/2006

984 Injector Direct Protection Diesel MF98400200DLI

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

1.1. Product identifier

984 Injector Direct Protection Diesel MF98400200DLI

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. 3

Serious eye damage/eye irritation: Eye Dam. 1

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

2-methylpropan-1-ol; iso-butanol

Signal word: Danger

Pictograms:







GB - EN

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.



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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.					
P260	Do not breathe vapours.					
P280	Wear Eye/face protection.					
P302+P352	IF ON SKIN: Wash with plenty of Water and soap					
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.					
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.					
P314	Get medical advice/attention if you feel unwell.					
P271	Use only outdoors or in a well-ventilated area.					
P273	Avoid release to the environment.					
P501	Dispose of contents/container according to the official regulations.					

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regulat	ion (EC) No. 1272/2008 [CLP]	•		
64742-48-9	Hydrocarbons, C10 - C13, n-alkan	es, iso-alkanes, cyclics, < 2 % arom	ates	50 - <= 100 %	
	918-481-9		01-2119457273-39		
	Asp. Tox. 1; H304 EUH066				
78-83-1	2-methylpropan-1-ol; iso-butanol			5 - < 10 %	
	201-148-0	603-108-00-1			
	Flam. Liq. 3, STOT SE 3, Skin Irrit.	2, Eye Dam. 1, STOT SE 3; H226 H	H335 H315 H318 H336		
27247-96-7	2-Ethylhexyl nitrate		5 - < 10 %		
	248-363-6		01-2119539586-27		
	Acute Tox. 4, Acute Tox. 4, Acute T EUH066	2 H302 H411 EUH044			
128-37-0	2,6-di-tert-butyl-p-cresol			1 - < 3 %	
	204-881-4		01-2119565113-46		
	Aquatic Acute 1, Aquatic Chronic 1				
104-76-7	2-Ethylhexan-1-ol		1 - < 3 %		
	203-234-3		01-2119487289-20		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit.				

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

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 articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



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SECTION 7: Handling and storage

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)

Additive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231	l	STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
27247-96-7	2-Ethylhexyl nitrate					
Worker DNEL, long-term		inhalation	systemic	0,35 mg/m³		
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day		
Consumer DNEL, long-term		dermal	systemic	0,52 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0,025 mg/kg bw/day		



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PNEC values

CAS No	Substance			
Environmental compartment				
27247-96-7 2-Ethylhexyl nitrate				
Freshwater	Freshwater 0,0008 mg/l			
Marine water		0,00008 mg/l		
Freshwater sediment 0,00074 n		0,00074 mg/kg		
Marine sediment 0,0		0,00074 mg/kg		
Micro-organisms in sewage treatment plants (STP)		10 mg/l		
Soil	0,000191 mg/kg			

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.

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

Observe legal regulations and provisions.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: green
Odour: solvent like

Test method

pH-Value (at 20 °C): not determined DIN 19268

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

No information available.

Softening point:

No information available.

No information available.

Flash point: 33 °C ISO 3679

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: 0,5 vol. %
Upper explosion limits: 11,3 vol. %
Ignition temperature: No information available.

Auto-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 0,8 g/cm³ DIN 51757

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: not determined

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

Viscosity / kinematic: <20,5 mm²/s DIN EN ISO 3104

(at 40 °C)

Flow time: No information available. DIN EN ISO 2431

(at 20 °C)

Vapour density: not determined Evaporation rate: not determined Solvent separation test: No information available. Solvent content: No information available.



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9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable0 Ignition hazard.

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. Take precautionary measures against static discharges.

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	
64742-48-9	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates					
	oral	LD50	>8000 mg/kg	Rat		
	dermal	LD50	>3160 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50	4951 mg/l	Rat		
78-83-1	2-methylpropan-1-ol; iso-butanol					
	oral	LD50	> 2830 mg/kg	Rat		
	dermal	LD50	> 2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50	> 24 mg/l	Rat		
27247-96-7	2-Ethylhexyl nitrate					
	oral	LD50	>9640 mg/kg	Rat		
	dermal	LD50	>4820 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50	11 mg/l	Rat		
	inhalation aerosol	ATE	1,5 mg/l			
128-37-0	2,6-di-tert-butyl-p-cresol					
	oral	LD50	2930 mg/kg	Rat		
	dermal	LD50	>2000 mg/kg	Rat		
104-76-7	2-Ethylhexan-1-ol					
	oral	LD50	2047 mg/kg	Rat		
	dermal	LD50	> 3000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50	11 mg/l	Rat		
	inhalation aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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

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

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

May be fatal if swallowed and enters airways. (Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates)

Specific effects in experiment on an animal

No information available.

Additional information on tests

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



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SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source			
64742-48-9	Hydrocarbons, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates								
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50	>1000 mg/l	96 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna				
78-83-1	2-methylpropan-1-ol; iso-but	anol							
	Acute fish toxicity	LC50	1430 mg/l	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50	1250 mg/l		Desmodesmus subspicatus				
	Acute crustacea toxicity	EC50	1439 mg/l	48 h	Daphnia magna				
27247-96-7	2-Ethylhexyl nitrate								
	Acute fish toxicity	LC50	2 mg/l	96 h	Danio rerio	Study report (2010)			
	Acute algae toxicity	ErC50	> 12,6 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1998)			
	Acute crustacea toxicity	EC50	> 12,6 mg/l	48 h	Daphnia magna	Study report (1998)			
	Acute bacteria toxicity	(> 1000	mg/l)	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)			
128-37-0	2,6-di-tert-butyl-p-cresol								
	Acute fish toxicity	LC50	0,42 mg/l	96 h	Brachydanio rerio (zebra-fish)				
	Acute algae toxicity	ErC50	0,42 mg/l	72 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	0,57 mg/l	48 h	Daphnia magna				
04-76-7	2-Ethylhexan-1-ol								
	Acute fish toxicity	LC50	17,1 mg/l	96 h	Leuciscus idus (golden orfe)				
	Acute algae toxicity	ErC50	11,5 mg/l	72 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	39 mg/l	48 h	Daphnia magna				

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-83-1	2-methylpropan-1-ol; iso-butanol	0,79
27247-96-7	2-Ethylhexyl nitrate	5,24
104-76-7	2-Ethylhexan-1-ol	2,9

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.



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12.6. 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

Advice on disposal

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.

Waste disposal number of waste from residues/unused products

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals

and chemical products not otherwise specified; other organic solvents, washing liquids and mother

liquors; hazardous waste

Waste disposal number of used product

070704 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fine chemicals

and chemical products not otherwise specified; 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

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

Land transport (ADR/RID)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (iso-butanol)

14.3. Transport hazard class(es): 3 Ш 14.4. Packing group: Hazard label: 3 Classification code: F1 Special Provisions: 274 601 Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 30 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (iso-butanol)

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

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Special Provisions: 274 601
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (iso-butanol)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Marine pollutant:no

Special Provisions: 223, 274, 955

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (iso-butanol)

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Special Provisions:A3Limited quantity Passenger:10 LPassenger LQ:Y344Excepted quantity:E1

IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

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, C10 - C13, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

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)

National regulatory information

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Employment restrictions: Observe restrictions to employment for juvenils 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 contaminating class (D): 2 - clearly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 14.

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

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

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315 Causes skin irritation.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

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.
 EUH044 Risk of explosion if heated under confinement.

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.)