

according to UK REACH Regulation

984 Injektor Direkt-Schutz 200 ml B1

Revision date: 11.10.2023

Product code: 1106768

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

1.1. Product identifier

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UFI:

2HD4-X078-6009-KWED

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 GmbH & Co. KG	
Street:	Buergermeister-Seidl-Strasse 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	111 NHS (National Health Service)	
number.		

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Asp. Tox. 1; H304 Eye Dam. 1; H318 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics 2-methylpropan-1-ol; iso-butanol

Hydrocarbons, C10, aromatics, <1% naphthalene Danger

Signal word:

Pictograms:



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

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No



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	smoking.		
P280	Wear protective gloves and eye/face protection.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.		
P331	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.		
P310	Immediately call a POISON CENTER/doctor.		
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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)		
64742-48-9	Hydrocarbons, C10-C13, n-alkane	s, isoalkanes, cyclics, <2% aro	matics	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, Skin Irrit. 2, Eye Dam	. 1, STOT SE 3, STOT SE 3; ⊢	226 H315 H318 H335 H336	
27247-96-7	2-Ethylhexyl nitrate	5 - < 10 %		
	248-363-6		01-2119539586-27	
	Acute Tox. 4, Acute Tox. 4, Acute EUH066			
104-76-7	2-Ethylhexan-1-ol			1 - < 3 %
	203-234-3		01-2119487289-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit.			
128-37-0	2,6-di-tert-butyl-p-cresol			1 - < 3 %
	204-881-4		01-2119555270-46	
	Aquatic Chronic 1; H410			

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	Specific Conc. Limits, M-factors and ATE			
64742-48-9	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	50 - < 100 %		
	inhalation: L0 mg/kg				
78-83-1	201-148-0	2-methylpropan-1-ol; iso-butanol	5 - < 10 %		
	inhalation: L0 mg/kg	C50 = > 24 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2830			
27247-96-7	248-363-6	2-Ethylhexyl nitrate	5 - < 10 %		
	inhalation: LC50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >4820 mg/kg; oral: LD50 = >9640 mg/kg				
104-76-7	203-234-3	2-Ethylhexan-1-ol	1 - < 3 %		
		C50 = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal:)0 mg/kg; oral: LD50 = 2047 mg/kg			

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.

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

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



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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

General advice

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.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

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

For containment

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

For cleaning up

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.

Other information

Absorb with liquid-binding material (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

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.

Advice on general occupational hygiene

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

Further information on handling





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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.

Hints on joint storage

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
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
104-76-7	2-ethylhexan-1-ol	1	5.4		TWA (8 h)	WEL
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
27247-96-7	7247-96-7 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 DN	EL, long-term	oral	systemic	0,025 mg/kg bw/day		

PNEC values

CAS No	Substance			
Environmental compartment Value				
27247-96-7	2-Ethylhexyl nitrate			
Freshwater		0,0008 mg/l		
Marine water	/arine water 0,00008 mg/l			
Freshwater sediment 0,00074 mg/kg				
Marine sediment 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 end of shift

c at long-term exposure:



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d before next shift

blood (B) Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. 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: 480min Thickness of the glove material 0,45 mm

EN ISO 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

 Information on basic physical and che 	mical properties		
Physical state:	liquid		
Colour:	green		
Odour:	characteristic		
			Test method
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and		100 °C	
boiling range:			
Flammability:		not applicable	
		not applicable	
Lower explosion limits:		0,5 vol. %	
Upper explosion limits:		7 vol. %	
Flash point:		34 °C	ISO 3679
Auto-ignition temperature:		215 °C	
Decomposition temperature:		not determined	
pH-Value (at 20 °C):			DIN 19268
Viscosity / kinematic:		2 mm²/s	DIN EN ISO 3104
(at 40 °C)			



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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:	not determined				
Density (at 20 °C):	0,807 g/cm³	DIN 51757			
Relative vapour density:	not determined				
9.2. Other information					
Information with regard to physical hazar Explosive properties The product is not: Explosive. Oxidizing properties The product is not: oxidising.	d classes				
Other safety characteristics					
Evaporation rate:	not determined				
Solid content:	not determined				
Sublimation point:	not applicable				
Softening point:	not determined				
Pour point:	not determined				
Viscosity / dynamic:		DIN 53019-1			
Flow time: (at 20 °C)		DIN EN ISO 2431			
SECTION 10: Stability and reactivity					

10.1. Reactivity

Flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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 hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.



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Acute toxicity

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

ATEmix calculated

ATE (oral) 8333 mg/kg; ATE (dermal) 18333 mg/kg; ATE (inhalation vapour) 138,6 mg/l; ATE (inhalation

dust/mist) 18,90 mg/l

CAS No	Chemical name	Chemical name				
	Exposure route	Dose		Species	Source	Method
64742-48-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics					
	oral	LD50 mg/kg	>8000	Rat		
	dermal	LD50 mg/kg	>3160	Rabbit		
	inhalation (4 h) vapour	LC50 mg/l	4951	Rat		
78-83-1	2-methylpropan-1-ol; iso	-butanol				
	oral	LD50 mg/kg	> 2830	Rat		
	dermal	LD50 mg/kg	> 2000	Rat		
	inhalation (4 h) vapour	LC50	> 24 mg/l	Rat		
27247-96-7	2-Ethylhexyl nitrate					
	oral	LD50 mg/kg	>9640	Rat		
	dermal	LD50 mg/kg	>4820	Rabbit		
	inhalation (4 h) vapour	LC50	11 mg/l	Rat		
	inhalation dust/mist	ATE	1,5 mg/l			
104-76-7	2-Ethylhexan-1-ol					
	oral	LD50 mg/kg	2047	Rat		
	dermal	LD50 mg/kg	> 3000	Rat		
	inhalation (4 h) vapour	LC50	11 mg/l	Rat		
	inhalation dust/mist	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.

Repeated exposure may cause skin dryness or cracking.

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.



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STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Reference to other sections: 2.1, 4.2.

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No information available.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
64742-48-9	Hydrocarbons, C10-C13,	n-alkanes, i	soalkanes, c	yclics, <2	2% aromatics			
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50 mg/l	>1000	96 h	Scenedesmus subspicatus			
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna			
78-83-1	2-methylpropan-1-ol; iso-butanol							
	Acute fish toxicity	LC50 mg/l	1430	96 h	Pimephales promelas			
	Acute algae toxicity	ErC50 mg/l	1250		Desmodesmus subspicatus			
	Acute crustacea toxicity	EC50 mg/l	1439	48 h	Daphnia magna			
27247-96-7	2-Ethylhexyl nitrate							
	Acute fish toxicity	LC50	2 mg/l	96 h	Danio rerio	Study report (2010)	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	> 12,6	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 12,6	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202	
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209	
104-76-7	2-Ethylhexan-1-ol							
	Acute fish toxicity	LC50 mg/l	17,1	96 h	Leuciscus idus (golden orfe)			
	Acute algae toxicity	ErC50 mg/l	11,5	72 h	Scenedesmus subspicatus			
	Acute crustacea toxicity	EC50	39 mg/l	48 h	Daphnia magna			
		mg/l			subspicatus			

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 substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.



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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.

List of Wastes Code - 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

List of Wastes Code - 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

List of Wastes Code - 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

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL); Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)	· · · · · · · · · · · · · · · · · · ·	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)	14.1. UN number or ID number:	UN 1993
14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3Classification code:F1Special Provisions:274 601Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:30Tunnel restriction code:D/EInland waterways transport (ADN)UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);
14.4. Packing group:IIIHazard label:3Classification code:F1Special Provisions:274 601Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:30Tunnel restriction code:D/EInland waterways transport (ADN)UN 199314.1. UN number or ID number:UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);		Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)
Hazard label:3Hazard label:3Classification code:F1Special Provisions:274 601Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:30Tunnel restriction code:D/EInland waterways transport (ADN)UN 199314.1. UN number or ID number:UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	14.3. Transport hazard class(es):	3
Classification code:F1Special Provisions:274 601Limited quantity:5 LExcepted quantity:E1Transport category:3Hazard No:30Tunnel restriction code:D/EInland waterways transport (ADN)UN 199314.1. UN number or ID number:UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	14.4. Packing group:	III
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) UN 1993 14.1. UN number or ID number: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Hazard label:	3
Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 30 Tunnel restriction code: D/E Inland waterways transport (ADN) UN 1993 14.1. UN number or ID number: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Classification code:	F1
Excepted quantity: E1 Transport category: 3 Hazard No: 30 Tunnel restriction code: D/E Inland waterways transport (ADN) UN 1993 14.1. UN number or ID number: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Special Provisions:	274 601
Transport category: 3 Hazard No: 30 Tunnel restriction code: D/E Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Limited quantity:	5 L
Hazard No: 30 Tunnel restriction code: D/E Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Excepted quantity:	E1
Tunnel restriction code: D/E Inland waterways transport (ADN) UN 1993 14.1. UN number or ID number: UN 1993 14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Transport category:	3
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> UN 1993 <u>14.2. UN proper shipping name:</u> FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Hazard No:	30
14.1. UN number or ID number:UN 199314.2. UN proper shipping name:FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Tunnel restriction code:	D/E
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);	Inland waterways transport (ADN)	
	<u>14.1. UN number or ID number:</u>	UN 1993
Γ yulocal bolls, CTO-CTS, Π -aixalles, isolaixalles, cyclics, $\sim 2/6$ arothatics)	14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL); Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)



according to UK REACH Regulation

984 Injektor Direkt-Schutz 200 ml B1

Product code: 1106768 Page 12 of 3 III 3 F1 274 601
III 3 F1
3 F1
F1
274 601
5 L
E1
UN 1993
FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)
3
III
3
no
223, 274, 955
5 L
E1
F-E, S-E
UN 1993
FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL);
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics)
3
III
3
A3
10 L
Y344
E1
355
60 L
366
220 L
No
MO instruments
o IMO instruments

and varnishes:



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according to UK REACH Regulation

	984 Injektor Direkt-Schutz 200 ml B1	
ate: 11.10.2023	Product code: 1106768	
tion according to Directive 3/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS	
nal information		

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

National regulatory information

Employment restrictions:

Water hazard class (D):

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). 2 - obviously hazardous to water

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): 1,9,11,16.

Abbreviations and acronyms

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic hazard 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: Workplace Exposure Limits TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate ATEL (EC): Short Term Exposure Limit LC50: Lethal Concentration EC50:half maximal Effective Concentration ErC50: means EC50 in terms of reduction of growth rate

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Asp. Tox. 1; H304	Calculation method
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text) H226

Flammable liquid and vapour.



according to UK REACH Regulation

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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.			
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	on 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)