according to Regulation (EC) No 1907/2006

984 Injektor Direkt-Schutz 200 ml DLI

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

1.1. Product identifier

984 Injektor Direkt-Schutz 200 ml DLI

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:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3 Aspiration hazard: Asp. Tox. 1

Serious eye damage/eye irritation: Eye Dam. 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

Naphtha Petroleum Hydro treated Heavy

2-methylpropan-1-ol; iso-butanol

Signal word: Danger

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

according to Regulation (EC) No 1907/2006

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smoking.

P260 Do not breathe vapours. P280 Wear eye protection.

P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P314 Get medical advice/attention if you feel unwell.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
64742-48-9	Naphtha Petroleum Hydro treated I	Heavy		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; H226 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 T EUH066	ox. 4, Aquatic Chronic 2;	H332 H312 H302 H411 EUH044		
64742-48-9	Naphtha Petroleum Hydro treated I	1 - < 3 %			
	918-481-9				
	Flam. Liq. 3, Asp. Tox. 1; H226 H30	04			
128-37-0	2,6-di-tert-butyl-4-kresol			1 - < 3 %	
	204-881-4		01-2119480433-40		
	Aquatic Chronic 1; H410				
104-76-7	2-Ethylhexan-1-ol	1 - < 3 %			
	203-234-3		01-2119487289-20		
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit.	2, STOT SE 3; H332 H31	5 H319 H335		

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 Conc.	Limits, M-factors and ATE	
64742-48-9	918-481-9	Naphtha Petroleum Hydro treated Heavy	50 - <= 100 %
	inhalation: LCs mg/kg	50 = 4951 mg/l (vapours); dermal: LD50 = >3160 mg/kg; oral: LD50 = >8000	
78-83-1	201-148-0	2-methylpropan-1-ol; iso-butanol	5 - < 10 %
	inhalation: LCs mg/kg	50 = > 24 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2830	
27247-96-7	248-363-6	2-Ethylhexyl nitrate	5 - < 10 %
	inhalation: LC5	50 = 11 mg/l (vapours); dermal: LD50 = >4820 mg/kg; oral: LD50 = >9640 mg/kg	
64742-48-9	918-481-9	Naphtha Petroleum Hydro treated Heavy	1 - < 3 %
	inhalation: LCs mg/kg	50 = > 4951 mg/l (vapours); dermal: LD50 = > 3160 mg/kg; oral: LD50 = > 5000	
104-76-7	203-234-3	2-Ethylhexan-1-ol	1 - < 3 %
	inhalation: LC5	50 = 11 mg/l (vapours); dermal: LD50 = > 3000 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.

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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

General measures

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

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.

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.

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)

Additive

according to Regulation (EC) No 1907/2006

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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	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 DN	EL, long-term	dermal	systemic	0,52 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,025 mg/kg bw/dav

PNEC values

CAS No	Substance	
Environmenta	I compartment	Value
27247-96-7	2-Ethylhexyl nitrate	
Freshwater		0,0008 mg/l
Marine water		0,00008 mg/l
Freshwater se	diment	0,00074 mg/kg
Marine sedime	ent	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:

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.

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.

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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: 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

Physical state: liquid
Colour: green
Odour: solvent like

Test method

pH-Value (at 20 °C): DIN 19268

Changes in the physical state

Melting point: not determined

Boiling point or initial boiling point and 100 °C

boiling range:

Sublimation point:

Softening point:

No information available.

No information available.

No information available.

Flash point: 33 °C ISO 3679

Flammability

Solid/liquid: not applicable
Gas: not applicable
Lower explosion limits: 0,5 vol. %
Upper explosion limits: 7 vol. %
Auto-ignition temperature: 215 °C

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

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not determined Vapour pressure:

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 n-octanol/water: not determined

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

Viscosity / kinematic: < 7 mm²/s DIN EN ISO 3104

(at 40 °C)

Flow time: No information available. DIN EN ISO 2431

(at 20 °C)

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

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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	Method		
64742-48-9	Naphtha Petroleum Hydro treated Heavy							
	oral	LD50 mg/kg	>8000	Rat				
	dermal	LD50 mg/kg	>3160	Rabbit				
	inhalation (4 h) vapour	LC50	4951 mg/l	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	47-96-7 2-Ethylhexyl nitrate							
	oral	LD50 mg/kg	>9640	Rat				
	dermal	LD50 mg/kg	>4820	Rabbit				
	inhalation (4 h) vapour	LC50	11 mg/l	Rat				
64742-48-9	Naphtha Petroleum Hydr	o treated Hea	ıvy					
	oral	LD50 mg/kg	> 5000	Rat				
	dermal	LD50 mg/kg	> 3160	Rabbit				
	inhalation (4 h) vapour	LC50 mg/l	> 4951	Rat				
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				

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.

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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].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
64742-48-9	Naphtha Petroleum Hydro treated Heavy								
	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-l	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	(> 1000 m	ng/l)	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209		
64742-48-9	Naphtha Petroleum Hydro treated Heavy								
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50 mg/l	>1000	96 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna				
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	11,5 mg/l	72 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	39 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

according to Regulation (EC) No 1907/2006

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There are no data available on the mixture itself.

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

No information available.

12.5. Results of PBT and vPvB assessment

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

12.7. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. 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

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND 150110

> 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

Water (with cleaning agent). Completely emptied packages can be recycled.

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 14.4. Packing group: Ш Hazard label: 3 Classification code: F1

Special Provisions: 274 601 640E

Limited quantity: 5 I Excepted quantity: E1 Transport category: 3 Hazard No: 30

according to Regulation (EC) No 1907/2006

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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

Special Provisions: 274 601 640E

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. Maritime transport in bulk according to IMO instruments

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 3, Entry 28

according to Regulation (EC) No 1907/2006

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2010/75/EU (VOC):

No information available.

No information available.

Additional information

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

National regulatory information

Employment restrictions: 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 class (D): 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): 8,9,12,16.

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

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			
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.
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.

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May cause respiratory irritation.						
May cause drowsiness or dizziness.						
Very toxic to aquatic life with long lasting effects.						
Toxic to aquatic life with long lasting effects.						
Harmful to aquatic life with long lasting effects.						
Risk of explosion if heated under confinement.						
Repeated exposure may cause skin dryness or cracking.						
	Product code: 11AMF98400200DLI May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Risk of explosion if heated under confinement.					

Further Information

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]: Calculation method.

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.)