

according to Regulation (EC) No 1907/2006

938 Injector Intensiv-Reiniger Diesel MF93800500AB

Print date: 06.09.2016

Product code: 1100511

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

1.1. Product identifier

938 Injector Intensiv-Reiniger Diesel MF93800500AB

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

Use of the substance/mixture

Cleaner

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

Indications of danger: F+ - Extremely flammable, Xn - Harmful, N - Dangerous for the environment R phrases: Extremely flammable. Irritating to skin. Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

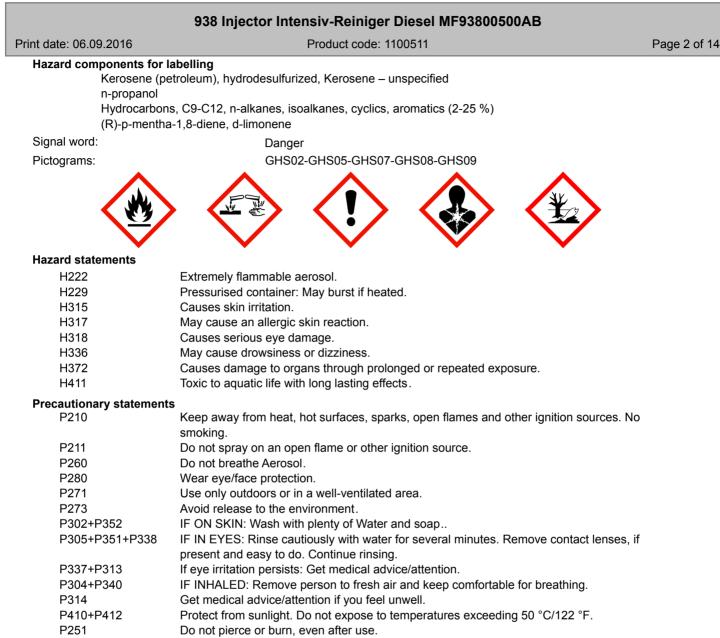
Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Aerosol: Aerosol 1 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Dam. 1 Respiratory or skin sensitisation: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - repeated exposure: STOT RE 1 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

2.2. Label elements



according to Regulation (EC) No 1907/2006



2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
265-184-9	Kerosene (petroleum), hydrodesulfurized, Kerosene – unspecified	25 - < 50 %
64742-81-0	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R38-51-53-65	
	Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H315 H336 H304 H411	
01-2119462828-25		
200-746-9	n-propanol	10 - < 20 %
71-23-8	F - Highly flammable, Xi - Irritant R11-41-67	
603-003-00-0	Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336	
01-2119486761-29		
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)	10 - < 20 %
64742-82-1	Xn - Harmful, N - Dangerous for the environment R10-48/20-51-53-65-66-67	
	Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066	
01-2119458049-33		
252-104-2	(2-methoxymethylethoxy)propanol	5 - < 10 %
34590-94-8		
248-363-6	2-Ethylhexyl nitrate	3 - < 5 %
27247-96-7	Xn - Harmful, N - Dangerous for the environment R20/21/22-44-51-53-66	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H302 H312 H332 H411 EUH044 EUH066	
227-813-5	(R)-p-mentha-1,8-diene, d-limonene	1 - < 3 %
5989-27-5	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-38-43-50-53-65	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H226 H315 H317 H304 H400 H410	
01-2119529223-47		
203-234-3	2-Ethylhexan-1-ol	1 - < 3 %
104-76-7	Xn - Harmful, Xi - Irritant R20-36/37/38	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H332 H315 H319 H335	
01-2119487289-20		
265-198-5	Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.	0.1 - < 1 %
64742-94-5	Xn - Harmful, N - Dangerous for the environment R51-53-65-66-67	
	STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H336 H304 H411 EUH066	
01-2119463588-24		
203-815-1	morpholine	0.1 - < 1 %
110-91-8	C - Corrosive, Xn - Harmful R10-20/21/22-34	
	Flam. Liq. 3, Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H226 H311 H331 H302 H314 H318	
01-2119496057-30		

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures



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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

No information available.

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

Carbon dioxide (CO2), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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). Treat the recovered material as prescribed in the section on waste disposal.

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

Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

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. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Protect from frost. Protect against direct sunlight. 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
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
110-91-8	Morpholine	10	36		TWA (8 h)	WEL
		20	72		STEL (15 min)	WEL
71-23-8	Propan-1-ol	200	500		TWA (8 h)	WEL
		250	625		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

STEL (EC) : Short Term Exposure Limit TWA (EC): time-weighted average U: Urea B: Blood

8.2. Exposure controls

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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

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	yellow-brown
Odour:	like oranges

		restmethou
pH-Value (at 20 °C):	9,9	DIN 19268
Changes in the physical state		
Melting point:	not determined	
Initial boiling point and boiling range:	97 °C	
Flash point:	26 °C	
Flammability		
Solid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	13,5 vol. %	
Auto-ignition temperature		
Solid:	not applicable	

Test method

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Data apply to technical substance: Density, Colour, Odour, Viscosity, pH.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

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

There are no data available on the mixture itself.

Acute toxicity

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



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Acute toxicity

CAS No	Chemical name				
	Exposure route	Method	Dose	Species	Source
64742-81-0	Kerosene (petroleum), hydrodesulfu	rized, Keros	ene – unspecif	ied	
	oral	LD50 mg/kg	>5000	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	
	inhalative (4 h) aerosol	LC50	5,28 mg/l	Rat	
71-23-8	n-propanol				
	oral	LD50	8000 mg/kg	Rat	
	dermal	LD50	4032 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	> 33,8 mg/l	Rat	
64742-82-1	Hydrocarbons, C9-C12, n-alkanes, i	soalkanes, c	cyclics, aromati	cs (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
34590-94-8	(2-methoxymethylethoxy)propanol				-
	oral	LD50	5135 mg/kg	Rat	
	dermal	LD50 mg/kg	13000	Rabbit	
	inhalative vapour	LC50	500 mg/l	Rat	
	inhalative gas	LC50	500 ppm	Rat	
27247-96-7	2-Ethylhexyl nitrate				
	oral	LD50 mg/kg	>9640	Rat	
	dermal	LD50 mg/kg	>4820	Rabbit	
	inhalative (4 h) vapour	LC50	11 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	! T		1	-
	oral	LD50 mg/kg	> 2000	Ratte	
	dermal	LD50 mg/kg	> 2000	Kaninchen	IUCLID
104-76-7	2-Ethylhexan-1-ol	1			
	oral	LD50	2047 mg/kg	Rat	
	dermal	LD50 mg/kg	> 3000	Rat	
	inhalative (4 h) vapour	LC50	11 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
64742-94-5	Kerosine - unspecified, Solvent nap	htha (petrole	um), heavy arc	om.	
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rabbit	



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		inhalative (4 h) aerosol	LC50	> 5 mg/l	Rat	
	110-91-8	morpholine				
		oral	LD50	1900 mg/kg	Rat	
		dermal	LD50	500 mg/kg	Rabbit	
		inhalative (4 h) vapour	LC50	8 mg/l	Rat	
		inhalative aerosol	ATE	0,5 mg/l		
		inhalative (4 h) gas	LC50	8000 ppm	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. ((R)-p-mentha-1,8-diene, d-limonene)

STOT-single exposure

May cause drowsiness or dizziness. (Kerosene (petroleum), hydrodesulfurized, Kerosene – unspecified), (n-propanol), (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)), (Kerosine - unspecified, Solvent naphtha (petroleum), heavy arom.)

Severe effects after repeated or prolonged exposure

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

Aspiration hazard

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

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

12.1. Toxicity

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



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CAS No	Chemical name								
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source			
64742-81-0	Kerosene (petroleum), hydro	desulfurized, k	Kerosene – unspe	cified					
	Acute fish toxicity	LC50	2-5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50	>1 mg/l	72 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50	1,4 mg/l	48 h	Daphnia magna				
71-23-8	n-propanol								
	Acute fish toxicity	LC50	4480 mg/l	96 h	Pimephales promelas				
64742-82-1	Hydrocarbons, C9-C12, n-alk	kanes, isoalkai	nes, cyclics, arom	atics (2-2	5 %)				
	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				
34590-94-8	(2-methoxymethylethoxy)pro	panol							
	Acute fish toxicity	LC50	10000 mg/l	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50	969 mg/l	96 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50	1919 mg/l	48 h	Daphnia magna				
27247-96-7	2-Ethylhexyl nitrate								
	Acute fish toxicity	LC50	2 mg/l	96 h	Brachydanio rerio (zebra-fish)				
	Acute algae toxicity	ErC50 mg/l	>1 - <10	72 h	Algae toxicity				
	Acute crustacea toxicity	EC50	<10 mg/l	48 h	Daphnia magna				
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene								
	Acute fish toxicity	LC50	0,7 mg/l	96 h	Pimephales promelas				
	Acute algae toxicity	ErC50	8 mg/l	72 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	0,42 mg/l	48 h	Daphnia magna				
104-76-7	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		Daphnia magna				
64742-94-5	Kerosine - unspecified, Solve	ent naphtha (p	etroleum), heavy a	arom.					
	Acute fish toxicity	LC50	>1 mg/l	96 h	Pimephales promelas (fathead minnow)				
	Acute algae toxicity	ErC50	>1 mg/l	96 h	Scenedesmus subspicatus				
	Acute crustacea toxicity	EC50	1,4 mg/l	48 h	Daphnia magna				
110-91-8	morpholine								
	Acute fish toxicity	LC50	179 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)				
	Acute algae toxicity	ErC50	58 mg/l		Desmodesmus subspicatus.				
	Acute crustacea toxicity	EC50	45 mg/l	48 h	Daphnia magna (Big water flea)				
	Algea toxicity	NOEC	10 mg/l		Desmodesmus subspicatus.				



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12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation	•				
110-91-8	morpholine					
	OECD 301E	93%	25			
	Easily biodegradable (concerning to the criteria of the OECD)					

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
71-23-8	n-propanol	0,29
27247-96-7	2-Ethylhexyl nitrate	3,74 - 5,24
5989-27-5	(R)-p-mentha-1,8-diene, d-limonene	4,23
104-76-7	2-Ethylhexan-1-ol	2,9
110-91-8	morpholine	-2,55

BCF

CAS No	Chemical name	BCF	Species	Source
110-91-8	morpholine	< 2,8		

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.

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

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances Classified as hazardous waste.

Waste disposal number of used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances Classified as 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 Classified as hazardous waste.

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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)

<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label: Classification code: Special Provisions: Limited quantity: Transport category: Tunnel restriction code:	2.1 5F 190 327 344 625 1 L 2 D
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label: Classification code: Special Provisions: Limited quantity:	2.1 5F 190 327 344 625 1 L
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS (Kerosene (petroleum), hydrodesulfurized, Kerosene – unspecified)
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label: Marine pollutant: Special Provisions: Limited quantity: EmS:	2, see SP63 yes 63, 190, 277, 327, 344, 959 See SP277 F-D, S-U
Air transport (ICAO)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
<u>14.4. Packing group:</u>	-
Hazard label: Special Provisions: Limited quantity Passenger:	2.1 A145 A167 A802 30 kg G
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	203 75 kg





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IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	203 150 kg		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	yes		
Danger releasing substance:	Kerosene (petroleum), hydrodesulfurized, Kerosene – unspecified		
14.6. Special precautions for user Warning: Flammable gases			
14.7. Transport in bulk according to Annex	<u>c II of Marpol and the IBC Code</u>		
not applicable			
SECTION 15: Regulatory information			
	ulations/legislation specific for the substance or mixture		
EU regulatory information			
1999/13/EC (VOC):	No information available.		
Additional information			
Aerosol directive (75/324/E	EC).		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juven work protection guideline' (94/33/EC). Observe employment restriction under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.		
Water contaminating class (D):	2 - water contaminating		
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.		
	enzene content of the product is less than 0.1%. It applies the annotation s carcinogenic is not necessary.	P.	
15.2. Chemical safety assessment			
Chemical safety assessmer	ts for substances in this mixture were not carried out.		
SECTION 16: Other information			
Changes This data sheet contains cha	anges from the previous version in section(s):		

1,2,3,4,5,6,7,8,9,10,11,13,14,15,16.

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) 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 R phrases (number and full text)

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 20 Harmful by inhalation.



according to Regulation (EC) No 1907/2006

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20/21/22	Harmful by inhalation, in contact with skin and if swallowed.	
34	Causes burns.	
36/37/38	Irritating to eyes, respiratory system and skin.	
38	Irritating to skin.	
41	Risk of serious damage to eyes.	
43	May cause sensitisation by skin contact.	
44	Risk of explosion if heated under confinement.	
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
50	Very toxic to aquatic organisms.	
51	Toxic to aquatic organisms.	
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
53	May cause long-term adverse effects in the aquatic environment.	
65	Harmful: may cause lung damage if swallowed.	
66	Repeated exposure may cause skin dryness or cracking.	
67	Vapours may cause drowsiness and dizziness.	
Relevant H and E	UH statements (number and full text)	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H372	Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
EUH044	Risk of explosion if heated under confinement.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

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.)