

Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 1 of 18

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

1.1. Product identifier

937 Injector Intensive Cleaner MF93700500AB

UFI: 7GW7-7040-V00A-13W8

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

Manufacturer

Company name: TUNAP GmbH & Co. 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

Supplier

Company name: TUNAP (UK) Limited

Street: Unit 12 Tonbridge Trade Park, Ingot Way

Place: GB Tonbridge, Kent. TN9 1GN

Telephone: +44 (0)1732 365163
E-mail: sdb@tunap.com
Internet: www.tunap.co.uk

1.4. Emergency telephone 111 NHS (National Health Service)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229 Acute Tox. 4; H312 Acute Tox. 4; H332 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361fd STOT SE 3; H335 H336 STOT RE 2; H373 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

xylene n-propanol

Hydrocarbons, C9, aromatics

ethylbenzene morpholine

Signal word: Danger



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 2 of 18

Pictograms:









Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H312+H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe Aerosol.

P280 Wear protective gloves and eye protection/face protection.

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

P310 Immediately call a POISON CENTER/doctor.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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



according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 3 of 18

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP	Regulation)	•	
1330-20-7	xylene			25 - < 50 %
	215-535-7	601-022-00-9	01-2119488216-32	
		c. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irr c 3; H226 H332 H312 H315 H319 H3		
71-23-8	n-propanol			10 - < 20 %
	200-746-9	603-003-00-0	01-2119486761-29	
	Flam. Liq. 2, Eye Dam.	1, STOT SE 3; H225 H318 H336	·	
64742-95-6	Hydrocarbons, C9, aro	matics		10 - < 20 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE H411 EUH066	3, STOT SE 3, Asp. Tox. 1, Aquatic	Chronic 2; H226 H335 H336 H304	
100-41-4	ethylbenzene	10 - < 20 %		
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Too H332 H315 H319 H33	c. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 5 H373 H304	E 3, STOT RE 2, Asp. Tox. 1; H225	
110-91-8	morpholine			3 - < 5 %
	203-815-1		01-2119496057-30	
	Flam. Liq. 3, Repr. 2, A H361fd H331 H311 H3		x. 4, Skin Corr. 1B, Eye Dam. 1; H226	
	Polyether amine, polyn	ner		1 - < 3 %
	Skin Irrit. 2, Eye Irrit. 2,	Aquatic Chronic 2; H315 H319 H411	1	
108-88-3	toluene	0.1 - < 1 %		
	203-625-9	601-021-00-3	01-2119471310-51	
	Flam. Liq. 2, Repr. 2, S H373 H304			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc	Limits, M-factors and ATE	
1330-20-7	215-535-7	xylene	25 - < 50 %
		C50 = 19,8 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE; oral: LD50 = 5000 mg/kg	
71-23-8	200-746-9	n-propanol	10 - < 20 %
	inhalation: LO	C50 = > 33,8 mg/l (vapours); dermal: LD50 = 4032 mg/kg; oral: LD50 = 8000 mg/kg	
64742-95-6	918-668-5	Hydrocarbons, C9, aromatics	10 - < 20 %
	dermal: LD50) = > 3160 mg/kg; oral: LD50 = ca. 7093 mg/kg	
100-41-4	202-849-4	ethylbenzene	10 - < 20 %
		C50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: 0 mg/kg; oral: LD50 = 3500 mg/kg	
110-91-8	203-815-1	morpholine	3 - < 5 %
		C50 = 8 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = y; oral: LD50 = ca. 1900 mg/kg	
108-88-3	203-625-9	toluene	0.1 - < 1 %
	inhalation: LC	C50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg	



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 4 of 18

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

Full 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

Danger of bursting container.

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.



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 5 of 18

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

Clean contaminated articles and floor according to the environmental legislation.

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).

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

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

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

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

Protect from frost. Protect from 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



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 6 of 18

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		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
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol		Post shift



according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 7 of 18

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1330-20-7	xylene			
Worker DNEL, long-term		inhalation	systemic	221 mg/m³
Worker DNEL,	acute	inhalation	systemic	442 mg/m³
Worker DNEL,	long-term	inhalation	local	221 mg/m³
Worker DNEL,	acute	inhalation	local	442 mg/m³
Worker DNEL,	long-term	dermal	systemic	212 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	65,3 mg/m³
Consumer DNE	EL, acute	inhalation	systemic	260 mg/m³
Consumer DNE	EL, long-term	inhalation	local	65,3 mg/m³
Consumer DNE	EL, acute	inhalation	local	260 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	12,5 mg/kg bw/day
64742-95-6	Hydrocarbons, C9, aromatics			
Worker DNEL,	long-term	inhalation	systemic	151 mg/m³
Worker DNEL,	long-term	dermal	systemic	12,5 mg/kg bw/day
Consumer DNE	EL, long-term	inhalation	systemic	32 mg/m³
Consumer DNE	EL, long-term	dermal	systemic	7,5 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	7,5 mg/kg bw/day
110-91-8	morpholine			
Worker DNEL, long-term		inhalation	systemic	91 mg/m³
Worker DNEL, long-term		inhalation	local	36 mg/m³
Worker DNEL, acute		inhalation	local	72 mg/m³
Worker DNEL,	long-term	dermal	systemic	1,04 mg/kg bw/day
Consumer DNE	EL, long-term	oral	systemic	6,3 mg/kg bw/day



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 8 of 18

PNEC values

CAS No	Substance	
Environment	al compartment	Value
1330-20-7	xylene	
Freshwater		0,327 mg/l
Freshwater (intermittent releases)	0,327 mg/l
Marine wate	r	0,327 mg/l
Freshwater	sediment	12,46 mg/kg
Marine sedir	nent	12,46 mg/kg
Micro-organisms in sewage treatment plants (STP)		6,58 mg/l
Soil		2,31 mg/kg
110-91-8	morpholine	
Freshwater		0,163 mg/l
Freshwater (intermittent releases)	0,09 mg/l
Marine wate	r	0,016 mg/l
Freshwater sediment		1,83 mg/kg
Marine sediment		0,183 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,269 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.

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:



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 9 of 18

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: light yellow
Odour: solvent like

Test method

Melting point/freezing point:

not determined

Boiling point or initial boiling point and 120 °C

boiling range:

Lower explosion limits:

Upper explosion limits:

Flammability: not applicable

not applicable 0,2 vol. % 13,5 vol. % 15 °C

Flash point: 15 °C
Auto-ignition temperature: <200 °C
Decomposition temperature: not determined

pH-Value (at 20 °C): DIN 19268

Viscosity / kinematic: < 7 mm²/s

(at 40 °C)

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:

Vapour pressure:

not determined
not determined
No information available.

Density (at 20 °C): 0,87 g/cm³ DIN 51757

Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate:

Solvent separation test:

No information available.

Solvent content:

No information available.



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 10 of 18

Flow time: No information available.

Further Information

Data apply to technical substance: Relative 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 normal conditions.

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. 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

No information available.

Acute toxicity

Harmful in contact with skin.

Harmful if inhaled.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) 1955 mg/kg; ATE (inhalation vapour) 18,55 mg/l; ATE (inhalation dust/mist) 2,107 mg/l



according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 11 of 18

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
1330-20-7	xylene				<u> </u>			
	oral	LD50 mg/kg	5000	Rat	GESTIS			
	dermal	ATE mg/kg	1100					
	inhalation (4 h) vapour	LC50	19,8 mg/l	Rat	GESTIS			
	inhalation dust/mist	ATE	1,5 mg/l					
71-23-8	n-propanol							
	oral	LD50 mg/kg	8000	Rat				
	dermal	LD50 mg/kg	4032	Rabbit				
	inhalation (4 h) vapour	LC50 mg/l	> 33,8	Rat				
64742-95-6	Hydrocarbons, C9, aromatics							
	oral	LD50 mg/kg	ca. 7093	Rat	Study report (1995)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 3160	Rabbit	Study report (1984)	OECD Guideline 402		
100-41-4	ethylbenzene							
	oral	LD50 mg/kg	3500	Rat	GESTIS			
	dermal	LD50 mg/kg	15400	Rabbit	GESTIS			
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat				
	inhalation dust/mist	ATE	1,5 mg/l					
110-91-8	morpholine							
	oral	LD50 mg/kg	ca. 1900	Rat	Study report (1967)	OECD Guideline 401		
	dermal	LD50 mg/kg	ca. 500	Rabbit	Arch. Ind. Hyg Occup. Med. 10 61–68 (195	OECD Guideline 402		
	inhalation (4 h) vapour	LC50	8 mg/l	Rat				
	inhalation dust/mist	ATE	0,5 mg/l					
108-88-3	toluene							
	dermal	LD50 mg/kg	12200	Rabbit	GESTIS			
	inhalation (4 h) vapour	LC50	49 mg/l	Rat	GESTIS			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 12 of 18

Suspected of damaging fertility. Suspected of damaging the unborn child. (morpholine)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

STOT-single exposure

May cause respiratory irritation. (xylene)

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene; ethylbenzene)

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].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 13 of 18

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
1330-20-7	xylene						
	Acute algae toxicity	ErC50	3,2 mg/l	72 h	Selenastrum capricornutum	Galassi et al. 1988	
71-23-8	n-propanol						
	Acute fish toxicity	LC50 mg/l	4480	96 h	Pimephales promelas		
64742-95-6	Hydrocarbons, C9, aroma	tics					
	Acute fish toxicity	LL50	9,2 mg/l	96 h	Oncorhynchus mykiss	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	7,9 mg/l	72 h	Raphidocelis subcapitata	Study report (2006)	OECD Guideline 201
	Acute crustacea toxicity	EL50	3,2 mg/l	48 h	Daphnia magna	REACh Registration Dossier	OECD Guideline 202
100-41-4	ethylbenzene						
	Acute fish toxicity	LC50	4,2 mg/l	96 h	Oncorhynchus mykiss	ECHA	
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	Pseudokirchneriella subcapitata	ECHA	
110-91-8	morpholine						
	Acute fish toxicity	LC50	380 mg/l	96 h	Oncorhynchus mykiss	Chemosphere 9: 753-762 (1980)	other: IRSA
	Acute algae toxicity	ErC50	28 mg/l	96 h	Pseudokirchneriella subcapitata	Chemosphere 9: 753-762 (1980)	other: EPA, National Eutrophication Rese
	Acute crustacea toxicity	EC50 mg/l	44,5	48 h	Daphnia magna	Study report (1997)	OECD Guideline 202
	Algae toxicity	NOEC	10 mg/l	4 d	Desmodesmus subspicatus		
	Crustacea toxicity	NOEC	5 mg/l	21 d	Daphnia magna	Study report (1997)	OECD Guideline 211
108-88-3	toluene						
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID	
	Acute algae toxicity	ErC50 mg/l	12,5	72 h	Selenastrum capricornutum	Galassi et al. 1988	

12.2. Persistence and degradability

The product has not been tested.



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 14 of 18

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
71-23-8	n-propanol				
	OECD Prüfrichtlinie 301F	83 - 92 %	28		
64742-95-6	Hydrocarbons, C9, aromatics				
		78%	28		
110-91-8	morpholine				
	OECD 301E	93%	25		
	Easily biodegradable (concerning to the criteria of the OECD)				
	OECD 302B	92%	28		

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1330-20-7	xylene	3,15
71-23-8	n-propanol	0,29
64742-95-6	Hydrocarbons, C9, aromatics	>= 3,03
100-41-4	ethylbenzene	3,15
110-91-8	morpholine	-2,55
108-88-3	toluene	2,73

BCF

CAS No	Chemical name	BCF	Species	Source
64742-95-6	Hydrocarbons, C9, aromatics	>= 30,85		REACh Registration D
110-91-8	morpholine	0	Cyprinus carpio	Review article or ha

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.

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. Dispose of waste according to applicable legislation.

List of Wastes Code - 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; hazardous waste



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 15 of 18

List of Wastes Code - 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; 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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:UN 195014.2. UN proper shipping name:AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1+8Classification code:5FC

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0
Transport category: 1
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):214.4. Packing group:-Hazard label:2.1+8Classification code:5FC

Special Provisions: 190 327 344 625

Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1+8Marine pollutant:no

Special Provisions: 63, 190, 277, 327, 344, 381, 959

Limited quantity: 1000 mL Excepted quantity: E0 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950

14.2. UN proper shipping name: AEROSOLS, flammable, containing substances in Class 8, Packing

Group II

14.3. Transport hazard class(es):2.114.4. Packing group:-Hazard label:2.1+8

Special Provisions: A145 A167 A802



Safety Data Sheet

according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 16 of 18

Limited quantity Passenger: Forbidden Passenger LQ: Forbidden Excepted quantity: E0

IATA-packing instructions - Passenger:ForbiddenIATA-max. quantity - Passenger:ForbiddenIATA-packing instructions - Cargo:ForbiddenIATA-max. quantity - Cargo:Forbidden

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Flammable gases.

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, Entry 40, Entry 48, Entry 75

Directive 2010/75/EU on industrial No information available.

emissions:

Directive 2004/42/EC on VOC in No information available.

paints and varnishes:

Additional information

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

Aerosol Directive (75/324/EEC)

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

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,9,11.



according to UK REACH Regulation

937 Injector Intensive Cleaner MF93700500AB

Revision date: 20.09.2024 Product code: 1100510 Page 17 of 18

Abbreviations and acronyms

Aerosol: Aerosols

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Repr: Reproductive toxicity

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated 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 (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 GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H332	Calculation method
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 2; H361fd	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH 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.



Safety Data Sheet

according to UK REACH Regulation

	937 Injector Intensive Cleaner MF93700500AB	
Revision date: 20.09.2024	Product code: 1100510	Page 18 of 18

sion date: 20.09.2024	Product code: 1100510	Page 18 of 18
H312	Harmful in contact with skin.	
H312+H332	Harmful in contact with skin or if inhaled.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
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.	
H361d	Suspected of damaging the unborn child.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
urther Information		

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