

**Safety Data Sheet**

according to UK REACH Regulation

957 Engine Cleaner MF95700400AB

Revision date: 27.09.2023

Product code: 1102519

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

957 Engine Cleaner MF95700400AB

UFI: VRY2-T06S-Y00W-7T7G

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 number: 111 NHS (National Health Service)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

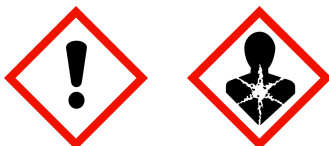
Asp. Tox. 1; H304

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates

Signal word: Danger**Pictograms:****Hazard statements**

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves.

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

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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.
P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

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)			
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates			50 - < 100 %
	920-107-4		01-2119453414-43	
	Asp. Tox. 1; H304 EUH066			
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			1 - < 3 %
	271-529-4		01-2119492627-25	
	Skin Sens. 1B; H317			
85940-28-9	Phosphorodithionsäure, gemischte O,O-Bis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze			1 - < 3 %
	288-917-4		01-2119521201-61	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2; H315 H318 H411			
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			0.1 - < 1 %
	274-263-7		01-2119492616-28	
	Skin Sens. 1B; H317			
61789-86-4	Sulfonic acids, petroleum, calcium salts			0.1 - < 1 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1B; H317			

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	
64742-47-8	920-107-4	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	50 - < 100 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 15000 mg/kg	
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	1 - < 3 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	
85940-28-9	288-917-4	Phosphorodithionsäure, gemischte O,O-Bis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze	1 - < 3 %
		inhalation: LC50 = > 2,3 mg/l (vapours); dermal: LD50 = > 20000 mg/kg; oral: LD50 = 3080 mg/kg	
70024-69-0	274-263-7	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0.1 - < 1 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 16000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	0.1 - < 1 %
		inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg Skin Sens. 1B; H317: >= 10 - 100	

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

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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.

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

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).

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

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.

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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****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
DNEL type				
85940-28-9	Phosphorodithionsäure, gemischte O,O-Bis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze			
Worker DNEL, long-term	inhalation	systemic		6,6 mg/m ³
Worker DNEL, long-term	dermal	systemic		9,6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic		1,67 mg/m ³
Consumer DNEL, long-term	dermal	systemic		4,8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic		0,19 mg/kg bw/day
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			
Worker DNEL, long-term	inhalation	systemic		11,75 mg/m ³
Worker DNEL, long-term	dermal	systemic		3,33 mg/kg bw/day
Worker DNEL, long-term	dermal	local		1,03 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic		2,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic		1,667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local		0,513 mg/cm ²
Consumer DNEL, long-term	oral	systemic		0,833 mg/kg bw/day
61789-86-4	Sulfonic acids, petroleum, calcium salts			
Worker DNEL, long-term	inhalation	systemic		11,75 mg/m ³
Worker DNEL, long-term	dermal	systemic		3,33 mg/kg bw/day
Worker DNEL, long-term	dermal	local		1,03 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic		2,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic		1,667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local		0,513 mg/cm ²
Consumer DNEL, long-term	oral	systemic		0,833 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
85940-28-9	Phosphorodithionsäure, gemischte O,OBis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,02 mg/l
Marine water		0 mg/l
Freshwater sediment		19,3 mg/kg
Marine sediment		1,93 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		15,7 mg/kg
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 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.

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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:	yellow-brown
Odour:	solvent like

	Test method
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	200 °C
Flammability:	not applicable
	not applicable
Lower explosion limits:	0,5 vol. %
Upper explosion limits:	8 vol. %
Flash point:	100 °C ISO 3679
Auto-ignition temperature:	No information available.
Decomposition temperature:	not determined
pH-Value (at 20 °C):	DIN 19268
Viscosity / kinematic: (at 40 °C)	< 7 mm ² /s DIN EN ISO 3104
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):	0,8425 g/cm ³ DIN 51757
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Self-ignition temperature

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Solid: not applicable
Gas: not applicable

Oxidizing properties
Not oxidising.

Other safety characteristics

Evaporation rate: not determined
Solvent separation test: No information available.
Solvent content: No information available.
Solid content: not determined
Sublimation point: No information available.
Softening point: No information available.
Viscosity / dynamic: No information available. DIN 53019-1
Flow time: No information available. DIN EN ISO 2431
(at 20 °C)

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

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 productsIncomplete 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

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates				
	oral	LD50 > 15000 mg/kg	Rat	Study report (1977)	OECD Guideline 423
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
85940-28-9	Phosphorodithionsäure, gemischte O,O-Bis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze				
	oral	LD50 3080 mg/kg	Rat	Study report (1980)	other: FHSA 16CFR1500.3
	dermal	LD50 > 20000 mg/kg	Rabbit	Study report (1980)	other: 16CFR1500.3
	inhalation (4 h) vapour	LC50 > 2,3 mg/l	Rat	Study report	OECD Guideline 403
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 4000 mg/kg	Rabbit	Study report (1986)	other: 40 CFR, Section 163.81-2, Federal
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
61789-86-4	Sulfonic acids, petroleum, calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		

Irritation and corrosivity

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

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.

Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

Reproductive toxicity: 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

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].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Skeletonema costatum	Study report; company data (1994)
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	
	Fish toxicity	NOEC mg/l	> 1000	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)
	Crustacea toxicity	NOEC mg/l	> 1000	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2010)
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts					
	Acute fish toxicity	LC50 mg/l	>10000	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	
85940-28-9	Phosphorodithionsäure, gemischte O,O-Bis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze					
	Acute fish toxicity	LL50	4,5 mg/l	96 h	Oncorhynchus mykiss	Study report (2005)
	Acute algae toxicity	ErC50	2,1 mg/l	72 h	Selenastrum capricornutum UTEX 1648	Study report (1994)
	Acute crustacea toxicity	EC50	5,4 mg/l	48 h	Daphnia magna	Study report (1994)
	Crustacea toxicity	NOEC	0,4 mg/l	21 d	Daphnia magna	Study report (2010)
	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a domestic residential sewage	Study report (1994)
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts					
	Acute fish toxicity	LC50 mg/l	>10000	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	REACH Registration Dossier
	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier
61789-86-4	Sulfonic acids, petroleum, calcium salts					
	Acute fish toxicity	LC50 mg/l	>10000	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata	Study report (1994)

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	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna	Study report (1993)	EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l ()	> 10000	3 h	activated sludge of a predominantly domestic sewage	Study report (1994)	OECD Guideline 209

12.2. Persistence and degradability

There are no data available on the mixture itself. AOX (mg/l): 0

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates			
	OECD Guideline 301 F	67,6 %	28	ECHA
	leicht biologisch abbaubar			

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	7,0
85940-28-9	Phosphorodithionsäure, gemischte O,OBis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze	8,87
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	18,05
61789-86-4	Sulfonic acids, petroleum, calcium salts	> 4,46

BCF

CAS No	Chemical name	BCF	Species	Source
64742-47-8	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclics, < 2 % aromates	144,3	calculated	Other company data (
85940-28-9	Phosphorodithionsäure, gemischte O,OBis(2-ethylhexyl und Isobutyl und Isopropyl)ester, Zinksalze	< 1000		Other company data (

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 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

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according to UK REACH Regulation

957 Engine Cleaner MF95700400AB

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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

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

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine pollutant: no

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

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

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Directive 2010/75/EU on industrial emissions:

No information available.

Directive 2004/42/EC on VOC in paints and varnishes:

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): 2,3,5,11.

Abbreviations and acronyms

Asp. Tox: Aspiration hazard

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

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
Asp. Tox. 1; H304	Calculation method
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

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.)