

FUEL CLEANER

Creation date	04th October 2022	Version	4.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture
Number
UFI
FUEL CLEANER
mixture
R 34008
1R51-G3PS-F001-Q2SG
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Fuel additive.
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name
Address
Identification number (CRN)
VAT Reg No
Phone
E-mail
Web address
RETECH, s.r.o.
Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
25018205
CZ25018205
+420327596428
info@retech.cz
www.retech.com
- Competent person responsible for the safety data sheet**
Name
E-mail
RETECH, s.r.o.
info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Flam. Liq. 3, H226
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335
STOT RE 1, H372
Aquatic Acute 1, H400
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

2.2. Label elements**Hazard pictogram****Signal word**

Danger

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date 04th October 2022
Revision date Version 4.0

Hazardous substances

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)
xylene (mixture of isomers)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2 % aromatics

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
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 smoking.
P260 Do not breathe vapours/spray.
P280 Wear protective gloves/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P331 Do NOT induce vomiting.
P501 Dispose of container to in accordance with national regulations.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.
>=30 % aromatic hydrocarbons, >=30 % aliphatic hydrocarbons, <5 % non-ionic surfactants

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 919-164-8 Registration number: 01-2119473977-17	hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)	30-60	Asp. Tox. 1, H304 STOT RE 1, H372 Aquatic Chronic 3, H412 Specific concentration limit: ATE Oral = 15000 mg/kg bw ATE Dermal = 3400 mg/kg bw ATE Inhalation (dust/mist) = 13,1 mg/l	

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date 04th October 2022

Revision date

Version

4.0

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1330-20-7 EC: 215-535-7 Registration number: 01-2119488216-32	xylene (mixture of isomers)	30-60	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412 Specific concentration limit: ATE Dermal = 1100 mg/kg bw ATE Inhalation (vapor) = 20 mg/l	1
CAS: 8042-47-5 Registration number: 01-2119487078-27	White mineral oil	5-10	Asp. Tox. 1, H304 Specific concentration limit: ATE Oral = 5000 mg/kg bw ATE Dermal = 2000,1 mg/kg bw ATE Inhalation (vapor) = 5000 mg/l	
CAS: 337367-30-3	1-propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	1-5	Skin Irrit. 2, H315 Aquatic Chronic 3, H412	
CAS: 26635-93-8	(Z)-Octadec-9-enylamine, ethoxylated	1-5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400	
CAS: 64742-82-1 EC: 265-185-4 Registration number: 01-2119473977-17-0000	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	1-5	Asp. Tox. 1, H304 STOT RE 1, H372 Aquatic Chronic 2, H411	
EC: 929-018-5 Registration number: 01-2119475608-26	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics	1-5	Asp. Tox. 1, H304	
EC: 918-481-9 Registration number: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2 % aromatics	1-5	Asp. Tox. 1, H304	
EC: 918-811-1 Registration number: 01-2119463583-34	hydrocarbons, C10, aromatics, <1% naphthalene	<1	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 Specific concentration limit: ATE Inhalation (vapor) = 4688 mg/l ATE Inhalation (dust/mist) = 4688 mg/l	

Notes

1 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Keep the affected person warm and at rest. In the event of issues, find medical advice.

If on skin

Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

FUEL CLEANER

Creation date

04th October 2022

Revision date

Version

4.0

If swallowed

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! Provide medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

May cause drowsiness or dizziness. May cause respiratory irritation.

If on skin

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

If in eyes

Causes serious eye irritation.

If swallowed

May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, foam, powder.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixtureIn the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Nitrogen oxides (NO_x), ammonia.**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. In case of inadequate ventilation wear respiratory protection. Flammable liquid and vapour. Remove all ignition sources. No smoking. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale vapours. Danger of slipping on spilled product. Do not touch or walk through spilt material. Do not get in eyes, on skin, or on clothing. Avoid contact with contaminated tools and objects. Wash hands and exposed parts of the body thoroughly after handling.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Provide sufficient ventilation. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use only outdoors or in a well-ventilated area. Do not inhale vapours. In case of inadequate ventilation wear respiratory protection. Prevent contact with skin and eyes. Prevent other leakage. Use personal protective equipment as per Section 8. Do not eat, drink or smoke when using this product. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

not available

Storage class

3 - Flammable liquids

Storage temperature

min 0 °C, max 30 °C

7.3. Specific end use(s)

See the Section 1.2.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date

04th October 2022

Revision date

Version

4.0

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
xylene (mixture of isomers) (CAS: 1330-20-7)	OEL 8 hours	221 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m ³	
	OEL 15 minutes	100 ppm	

DNEL

hydrocarbons, C10, aromatics, <1% naphthalene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	151 mg/m ³	Systemic chronic effects		
Workers	Dermal	12.5 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	32 mg/m ³	Systemic chronic effects		
Consumers	Dermal	7.5 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	7.5 mg/kg bw/day	Systemic chronic effects		

xylene (mixture of isomers)

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	221 mg/m ³	Systemic chronic effects		
Workers	Inhalation	442 mg/m ³	Systemic acute effects		
Workers	Dermal	3182 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	65.3 mg/m ³	Local chronic effects		
Consumers	Inhalation	260 mg/m ³	Systemic acute effects		
Consumers	Dermal	1872 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	12.5 mg/kg bw/day	Systemic chronic effects		

PNEC

xylene (mixture of isomers)

Route of exposure	Value	Value determination	Source
Freshwater environment	0.327 mg/l		
Seawater	0.327 mg/l		
Microorganisms in wastewater treatment plants	6.58 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		
Sea sediments	12.46 mg/kg of dry substance of sediment		
Soil (agricultural)	2.31 mg/kg of dry substance of soil		

FUEL CLEANER

Creation date

04th October 2022

Revision date

Version

4.0

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Neoprene. PVC. Penetration time of glove material: ≥ 240 min. Recommended thickness of the material: ≥ 0.15 mm. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear.

Respiratory protection

Under regular circumstances it is not necessary. Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter A2/P2. Check that the respirator fits tightly and the filter is changed regularly.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Flammable liquid and vapour.
Lower and upper explosion limit	data not available
Flash point	28,5 °C (Setaflash uzavřený kelímek)
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Relative density	25 °C: 0,87
data not available	

9.2. Other information

Evaporation rate	data not available
Oxidising properties	The product has no oxidizing properties.
Explosive properties	The product does not have explosive properties.

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

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

not available

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date 04th October 2022
Revision date Version 4.0

10.4. Conditions to avoid

Keep away from sources of heating, ignition and direct sunlight.

10.5. Incompatible materials

When used in the standard way, there is not any dangerous reaction with other substances.

10.6. Hazardous decomposition products

Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire. Nitrogen oxides (NOx), ammonia.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

FUEL CLEANER

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	ATE	17921.15 mg/kg			
Dermal	ATE	3492.84 mg/kg			
Inhalation (vapor)	ATE	34.93 mg/l			

hydrocarbons, C10, aromatics, <1% naphthalene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5001 mg/kg		Rat	
Inhalation (vapor)	LC ₅₀	4688 mg/l		Rat	
Inhalation (vapor)	ATE	4688 mg/l			
Inhalation (dust/mist)	ATE	4688 mg/l			

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	15000 mg/kg		Rat	
Dermal	LD ₅₀	3400 mg/kg		Rabbit	
Oral	ATE	15000 mg/kg bw			
Dermal	ATE	3400 mg/kg bw			
Inhalation (dust/mist)	ATE	13,1 mg/l			

White mineral oil

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	5000 mg/kg		Rat	
Dermal	LD ₅₀	2000.1 mg/kg		Rabbit	
Inhalation (vapor)	LC ₅₀	5000 mg/l		Rat	
Oral	ATE	5000 mg/kg bw			
Dermal	ATE	2000,1 mg/kg bw			
Inhalation (vapor)	ATE	5000 mg/l			

xylylene (mixture of isomers)

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC ₅₀	20 mg/l			
Dermal	ATE	1100 mg/kg bw			
Inhalation (vapor)	ATE	20 mg/l			

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

FUEL CLEANER

Creation date

04th October 2022

Revision date

Version

4.0

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.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

Route of exposure	Parameter	Value	Specific target organ	Result	Species	Sex
			Nervous system			

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Very toxic to aquatic life.

(Z)-Octadec-9-enylamine, ethoxylated

Parameter	Value	Exposure time	Species	Environment
EC ₅₀	<1 mg/kg	48 hour	Daphnia (Daphnia magna)	

hydrocarbons, C10, aromatics, <1% naphthalene

Parameter	Value	Exposure time	Species	Environment
LL 50	2-5 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	10 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀	10-22 mg/l	48 hour	Invertebrates (Daphnia magna)	
IC ₅₀	10 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

xylene (mixture of isomers)

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	4.2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀	>2.93 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
IC ₅₀	2.2 mg/l	72 hour	Algae	

Chronic toxicity

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25 %)

Parameter	Value	Exposure time	Species	Environment
	0.28 mg/l	21 day	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

FUEL CLEANER

Creation date	04th October 2022	Version	4.0
Revision date			

Biodegradability

(Z)-Octadec-9-enylamine, ethoxylated

Parameter	Value	Exposure time	Environment	Result
				Biodegradable

The mixture is biodegradable.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 03 05 organic wastes containing hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

UN 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Xylen)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

Yes

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date

04th October 2022

Revision date

Version

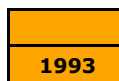
4.0

Additional information

Hazard identification No.

UN number

Safety signs



3+ hazardous for the environment

**Road transport - ADR**

Tunnel restriction code

(D/E)

Railway transport - RID**Marine transport - IMDG**

Hazard initiator

Xylene

Marine Pollutant

Yes

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours/spray.
P280	Wear protective gloves/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date	04th October 2022	Version	4.0
Revision date			

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER/doctor if you feel unwell.

P501

Dispose of container to in accordance with national regulations.

A list of additional standard phrases used in the safety data sheet

EUH066

Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.

Acute toxicity

Aquatic Acute

Hazardous to the aquatic environment

Aquatic Chronic

Hazardous to the aquatic environment (chronic)

Asp. Tox.

Aspiration hazard

Eye Dam.

Serious eye damage

Eye Irrit.

Eye irritation

Flam. Liq.

Flammable liquid

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

FUEL CLEANER

Creation date	04th October 2022	Version	4.0
Revision date			

Skin Irrit.

Skin irritation

STOT RE

Specific target organ toxicity - repeated exposure

STOT SE

Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 20 May 2020. Changes were made in sections 11, 12, 13, 15 and 16.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.