

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**9190 Metal Cleaner**

Revision: 28.01.2026

Product code: 9190F

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

9190 Metal Cleaner

Product group:

UFI: C0FT-J0XF-P00D-WF5V

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

Maintainer, irritant, containing solvents with skin absorptive substances

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: Kisling AG  
Street: Motorenstrasse 102  
Place: CH-8620 Wetzikon  
Telephone: +41 58 272 0 272  
E-mail: customerservice@kisling.com  
Contact person: Product Compliance Telephone: +49 7940 5096 143  
E-mail (Contact person): compliance@kisling.com  
Internet: www.kisling.com

**Supplier**

Company name: Kisling (Deutschland) GmbH  
Street: Salzstraße 15  
Place: D-74676 Niedernhall  
Telephone: +49 7940 50961 61  
E-mail: customerservice@kisling.com  
Contact person: Product Compliance Telephone: +49 7940 5096 143  
E-mail Contact person: compliance@kisling.com  
Internet: www.kisling.com

**1.4. Emergency telephone number:** 24 hr. emergency phone number +1 872 5888271 (KAR)  
Medicines & Poisons Info Office +356 2545 6508

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H336  
Asp. Tox. 1; H304  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

isopropanol  
Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics  
Hydrocarbons C6 - isoalkanes <5% n-hexane

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acetone

**Signal word:**

Danger

**Pictograms:**



#### Hazard statements

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

- P210 Keep away from heat. No Smoking.
- P273 Avoid release to the environment.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.
- P403+P235 Store in a well-ventilated place. Keep cool.

#### Labelling of packages where the contents do not exceed 125 ml

**Signal word:**

Danger

**Pictograms:**



#### Hazard statements

H304

#### Precautionary statements

P301+P310-P331

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixtures

##### Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
67-63-0	isopropanol	30 - < 50 %
	200-661-7	603-117-00-0
	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics	15 - < 30 %
	927-510-4	01-2119475515-33
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane			15 - < 30 %
	931-254-9		01-2119484651-34	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1; H225 H315 H336 H304			
67-64-1	acetone			15 - < 30 %
	200-662-2	606-001-00-8	01-2119498062-37	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
110-54-3	n-hexane			1 - < 5 %
	203-777-6	601-037-00-0	01-2119480412-44	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H372 H304 H411			
110-82-7	cyclohexane			1 - < 5 %
	203-806-2	601-017-00-1	01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			

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		
67-63-0	200-661-7	isopropanol	30 - < 50 %
	inhalation: LC50 = 30 mg/l (vapours); dermal: LD50 = 13900 mg/kg; oral: LD50 = 4570-5840 mg/kg		
64742-49-0	927-510-4	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics	15 - < 30 %
	inhalation: LC50 = > 23,3 mg/l (vapours); dermal: LD50 = > 2800 - 3100 mg/kg; oral: LD50 = >5840 mg/kg		
64742-49-0	931-254-9	Hydrocarbons C6 - isoalkanes <5% n-hexane	15 - < 30 %
	inhalation: LC50 = 73860 mg/l (vapours)		
67-64-1	200-662-2	acetone	15 - < 30 %
	inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg		
110-82-7	203-806-2	cyclohexane	1 - < 5 %
	Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		

#### Labelling for contents according to Regulation (EC) No 648/2004

&gt;= 30 % aliphatic hydrocarbons.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Never give anything by mouth to an unconscious person or a person with cramps.  
If unconscious but breathing normally, place in recovery position and seek medical advice.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. In case of skin irritation, consult a physician.

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids

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apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

No further relevant information available.

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

Treat symptomatically. No further relevant information available.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Powder.

#### **5.2. Special hazards arising from the substance or mixture**

Burning produces heavy smoke.  
Danger of serious damage to health by prolonged exposure.  
Use appropriate respiratory protection.

#### **5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers.  
Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General advice**

Keep away from sources of ignition - No smoking. Ventilate affected area.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
See protective measures under point 7 and 8.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### **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**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid release to the environment. In use, may form flammable/explosive vapour-air mixture. Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Provide earthing of containers, equipment, pumps and ventilation facilities. Use non-sparking tools.

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke.

#### Advice on general occupational hygiene

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

#### Further information on handling

Keep only in the original container in a cool, well-ventilated place. Never use pressure to empty container. Do not allow to enter into surface water or drains.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Hints on joint storage

Do not store together with: ,

#### Further information on storage conditions

Follow the instructions for use on the label.  
Keep container dry.  
Keep away from sources of ignition - No smoking. Protect from direct sunlight.

### 7.3. Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	
110-82-7	Cyclohexane	200	700		TWA (8 h)	
110-54-3	n-Hexane	20	72		TWA (8 h)	

#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
67-63-0	isopropanol			
	Worker DNEL, acute	inhalation	systemic	1000 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	178 mg/m <sup>3</sup>
	Consumer DNEL, acute	oral	systemic	51 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	500 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	888 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	89 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	319 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	26 mg/kg bw/day
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics			
	Worker DNEL, long-term	inhalation	systemic	2085 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	447 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	149 mg/kg bw/day

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#### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
	DNEL type			
	Consumer DNEL, long-term	oral	systemic	149 mg/kg bw/day
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane			
	Worker DNEL, long-term	inhalation	systemic	5306 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	13964 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	1131 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	1377 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	1301 mg/kg bw/day
67-64-1	acetone			
	Worker DNEL, long-term	inhalation	systemic	1210 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	2420 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	200 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
110-54-3	n-hexane			
	Worker DNEL, long-term	inhalation	systemic	75 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	16 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	5.3 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	4 mg/kg bw/day
110-82-7	cyclohexane			
	Worker DNEL, long-term	inhalation	systemic	700 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	1400 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	700 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	1400 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	2016 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	206 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	412 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	206 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	412 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	1186 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	59.4 mg/kg bw/day

#### PNEC values

CAS No	Name of agent	Value
	Environmental compartment	
67-63-0	isopropanol	
	Freshwater	140,9 mg/l
	Freshwater (intermittent releases)	140,9 mg/l
	Marine water	140,9 mg/l
	Freshwater sediment	552 mg/kg
	Marine sediment	552 mg/kg
	Secondary poisoning	160 mg/kg
	Micro-organisms in sewage treatment plants (STP)	2251 mg/l
	Soil	28 mg/kg
67-64-1	acetone	
	Freshwater	10.6 mg/l
	Freshwater (intermittent releases)	21 mg/l
	Marine water	1.06 mg/l

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#### PNEC values

CAS No	Name of agent	Value
Environmental compartment		
Freshwater sediment		30.4 mg/kg
Marine sediment		3.04 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		29.5 mg/kg
110-82-7	cyclohexane	
Freshwater		0.0447 mg/l
Freshwater (intermittent releases)		0.009 mg/l
Marine water		0.00447 mg/l
Freshwater sediment		3.6 mg/kg
Marine sediment		0.36 mg/kg
Micro-organisms in sewage treatment plants (STP)		3.24 mg/l
Soil		0.694 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material 0,7 mm

> 480 min

See information supplied by the manufacturer.

##### Skin protection

(Natural fibres (e.g. cotton)/ heat-resistant synthetic fibres)

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	56 °C
Flammability:	Highly flammable

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Lower explosion limits:	1 vol. %
Upper explosion limits:	14,3 vol. %
Flash point:	< -20 °C
Auto-ignition temperature:	> 200 °C
Decomposition temperature:	not applicable
pH-Value:	not applicable
Viscosity / kinematic:	not determined
Water solubility:	not determined
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure (at 20 °C):	246 hPa
Vapour pressure (at 50 °C):	814 hPa
Density:	0.74 g/cm <sup>3</sup>
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

Vapours can form explosive mixtures with air.

##### Oxidizing properties

not determined

#### Other safety characteristics

Evaporation rate:	not determined
Solvent content:	100.00 %
Solid content:	not determined
Viscosity / dynamic:	not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

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### 10.4. Conditions to avoid

In case of warming: Thermal decomposition.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

Carbon monoxide

## SECTION 11: Toxicological information

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

#### Toxicocinetics, metabolism and distribution

No data available

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#### 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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	isopropanol				
	oral	LD50 4570-5840 mg/kg	Rat	Pre-supplier/manufacturer	OECD 401
	dermal	LD50 13900 mg/kg	Rabbit	Pre-supplier/manufacturer	OECD 402
	inhalation (4 h) vapour	LC50 30 mg/l	Rat	Pre-supplier/manufacturer	
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics				
	oral	LD50 >5840 mg/kg	Rat		
	dermal	LD50 > 2800 - 3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
	inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	Study report (1988)	OECD Guideline 403
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane				
	inhalation (4 h) vapour	LC50 73860 mg/l	Rat	REACH Registration Dossier	OECD Guideline 403
67-64-1	acetone				
	oral	LD50 5800 mg/kg	Rat	RTECS	
	dermal	LD50 20000 mg/kg	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50 76 mg/l	Rat		

#### Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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.

#### STOT-single exposure

May cause drowsiness or dizziness. (isopropanol; Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics; Hydrocarbons C6 - isoalkanes <5% n-hexane; acetone)

#### STOT-repeated exposure

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### Practical experience

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May cause respiratory irritation. Potential hazards:

The product is skin resorptive.

Irritating to eyes. (reversible.)

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
67-63-0	isopropanol					
	Acute fish toxicity	LC50 10000 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	OECD Guideline 203
	Fish toxicity	NOEC > 1000 mg/l	28 d	Danio rerio	REACH Registration Dossier	other: REACH Guidance on QSARs R.6
	Crustacea toxicity	NOEC > 1000 mg/l	21 d	Daphnia magna	REACH Registration Dossier	other: REACH Guidance on QSARs R.6
64742-49-0	Hydrocarbons C7 - n-alkanes - isoalkanes - cyclics					
	Acute fish toxicity	LL50 > 13,4 mg/l	96 h	Oncorhynchus mykiss	Study report (2004)	OECD Guideline 203
	Acute algae toxicity	ErC50 12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane					
	Acute fish toxicity	LL50 12 mg/l	96 h	Oncorhynchus mykiss (previous name: Salmo gairdner)	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 13,56 mg/l	72 h	Pseudokirchneriella subcapitata	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Acute crustacea toxicity	EL50 3 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Fish toxicity	NOEC 4,089 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 7,138 mg/l	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a
67-64-1	acetone					
	Acute fish toxicity	LC50 5540 mg/l	96 h	Oncorhynchus mykiss		
	Acute crustacea toxicity	EC50 6100 mg/l	48 h	Daphnia magna		
110-54-3	n-hexane					
	Acute fish toxicity	LC50 2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990	

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#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	isopropanol	0.05
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane	5.8
67-64-1	acetone	-0,24
110-54-3	n-hexane	3,9

#### BCF

CAS No	Chemical name	BCF	Species	Source
67-63-0	isopropanol	0.994		Meylan,WM, Howard,PH
64742-49-0	Hydrocarbons C6 - isoalkanes <5% n-hexane	>= 11.73 - <= 316	Pimephales promelas	REACH Registration D

#### 12.4. Mobility in soil

No further relevant information available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 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 data available

#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains.

##### Contaminated packaging

Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1993
<u>14.2. UN proper shipping name:</u>	FLAMMABLE LIQUID, N.O.S. (HEPTANES)
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	II
Hazard label:	3



Classification code:	F1
Special Provisions:	274 601 640D

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Limited quantity: 1 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (HEPTANES)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601 640D  
 Limited quantity: 1 L  
 Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (HEPTANES)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-E, S-E

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (HEPTANES)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364

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IATA-max. quantity - Cargo: 60 L

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: HEPTANES

#### **14.6. Special precautions for user**

No information available.

#### **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 29, Entry 40, Entry 57, Entry 75

Directive 2010/75/EU on industrial emissions: 100 % (740 g/l)

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information: P5c

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

##### **Additional information**

Regulation (EC) No. 648/2004 [Detergents regulation]

##### **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. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 2 - obviously hazardous to water

(EU) EINECS/ELINCS/NLP: yes

(RC) TCSI: yes

(NZ) NZIoC: yes

(USA) TSCA: yes

(CDN) DSL: yes

(ROK) KECI/ECL: yes

(RP) PICCS: yes

(JP) MITI: no

(CHN) IECSC: yes

(AUS) AIIC: yes

(CDN) NDSL: no

#### **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): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

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#### Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2  
 Asp. Tox. 1: Aspiration hazard, hazard category 1  
 Skin Irrit. 2: Skin irritation, hazard category 2  
 Eye Irrit. 2: Eye irritation, hazard category 2  
 Repr. 2: Reproductive toxicity, hazard category 2  
 STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3  
 STOT RE 1: Specific target organ toxicity - repeated exposure, hazard category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2  
 CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 IMDG: International Maritime Code for Dangerous Goods  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 IATA: International Air Transport Association  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 2; H411	Calculation method

#### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.

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#### Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### 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.

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