

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
HYSO 99**

Regulation (EU) n. 2020/878

**Safety Data Sheet date: 22/10/2024, version 8****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: HYSO 99  
SDS code: P20000EU  
UFI: C6YR-RMTK-RU1N-HR52

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

Recommended use:

Solvent  
Cleaner  
Industrial uses

**1.3. Details of the supplier of the safety data sheet****Manufacturers:**

Socomore SASU - Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France  
-Tel. +33 (0)2 97 43 76 90

Manufacturing - Parc Gohelis - 56250 ELVEN France - Tel +33 (0)2 97 43 76 83 - Fax +33 (0)2 97 54 50 26

Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland - Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com

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**Competent person responsible for the safety data sheet:**

msdsinformation-eu@socomore.com

**1.4. Emergency telephone number**

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

- ⚠ Danger, Flam. Liq. 2, Highly flammable liquid and vapour.
  - ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
  - ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
  - ⚠ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

Hazard pictograms:



Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic 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.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

propan-2-ol

cyclohexane

n-hexane

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

**2.3. Other hazards**

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

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**SECTION 3: Composition/information on ingredients****3.1. Substances**

N.A.

**3.2. Mixtures**

Hazardous components within the meaning of the CLP regulation and related classification:

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Qty	Name	Ident. Number	Classification
>= 90%	HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS	EC: 920-750-0 REACH No.: 01- 2119473851 -33	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> <li>⚠ 4.1/C2 Aquatic Chronic 2 H411</li> </ul> EUH066
>= 1% - < 3%	propan-2-ol	Index number: CAS: 67-63-0 EC: 200-661-7 REACH No.: 01- 2119457558 -25	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.3/2 Eye Irrit. 2 H319</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> </ul>
>= 1% - < 3%	cyclohexane	Index number: CAS: 110-82-7 EC: 203-806-2	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400</li> <li>⚠ 4.1/C1 Aquatic Chronic 1 H410</li> </ul>
>= 1% - < 3%	n-hexane	Index number: CAS: 110-54-3 EC: 203-777-6	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.7/2 Repr. 2 H361f</li> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> <li>⚠ 3.9/2 STOT RE 2 H373</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> <li>⚠ 4.1/C2 Aquatic Chronic 2 H411</li> </ul> Specific Concentration Limits: C >= 5%: STOT RE 2 H373

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

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In case of Inhalation:

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

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a CO2 fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

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Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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

Always keep in a well ventilated place.

Store at ambient temperatures. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

#### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limit values

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

- OEL Type: National - TWA: 1200 mg/m<sup>3</sup>, 260 ppm - Notes: ExxonMobil

- OEL Type: National - TWA: 1000 mg/m<sup>3</sup> - STEL: 1500 mg/m<sup>3</sup> - Notes: vapor, France

propan-2-ol - CAS: 67-63-0

- OEL Type: National - STEL: 980 mg/m<sup>3</sup>, 400 ppm - Notes: France

- OEL Type: National - TWA: 500 mg/m<sup>3</sup>, 200 ppm - Notes: DFG, Y - Germany

- OEL Type: National - TWA: 999 mg/m<sup>3</sup>, 400 ppm - STEL: 1250 mg/m<sup>3</sup>, 500 ppm -

Notes: United Kingdom

- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

- OEL Type: National - TWA: 999 mg/m<sup>3</sup>, 400 ppm - STEL: 1250 mg/m<sup>3</sup>, 500 ppm

- OEL Type: OSHA PEL - TWA: 980 mg/m<sup>3</sup>, 400 ppm

- OEL Type: NIOSH REL - TWA: 980 mg/m<sup>3</sup>, 400 ppm - STEL: 1225 mg/m<sup>3</sup>, 500 ppm

- OEL Type: National - TWA: 500 mg/m<sup>3</sup>, 200 ppm - STEL(30min (Miw)): 1960 mg/m<sup>3</sup>, 800 ppm - Notes: Österreich

- OEL Type: National - TWA: 900 mg/m<sup>3</sup> - STEL: 1200 mg/m<sup>3</sup> - Notes: Poland (Dz.U. 2018 pos. 1286)

cyclohexane - CAS: 110-82-7

- OEL Type: National - TWA(8h): 700 mg/m<sup>3</sup>, 200 ppm - Notes: Germany

- OEL Type: National - TWA(8h): 700 mg/m<sup>3</sup>, 200 ppm - STEL: 1300 mg/m<sup>3</sup>, 375 ppm - Notes: France VLEC - INRS TMP N° 84

- OEL Type: EU - TWA(8h): 700 mg/m<sup>3</sup>, 200 ppm

- OEL Type: ACGIH - TWA(8h): 100 ppm - Notes: CNS impair

- OEL Type: National - TWA(8h): 700 mg/m<sup>3</sup>, 200 ppm - STEL(15'): 2800 mg/m<sup>3</sup>, 800 ppm - Notes: Österreich

- OEL Type: National - TWA(8h): 200 ppm - Notes: Cyprus

- OEL Type: National - TWA(8h): 700 mg/m<sup>3</sup> - STEL: 2000 mg/m<sup>3</sup> - Notes: Czech

Republic

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- OEL Type: National - TWA: 50 ppm - Notes: Denmark
- OEL Type: National - TWA(8h): 350 mg/m<sup>3</sup>, 100 ppm - STEL(15'): 1050 mg/m<sup>3</sup>, 300 ppm - Notes: United Kingdom

n-hexane - CAS: 110-54-3

- OEL Type: National - TWA(8h): 72 mg/m<sup>3</sup>, 20 ppm - Notes: France VLEC - Note R3 - INRS TMP N° 59, 84
- OEL Type: National - TWA(8h): 180 mg/m<sup>3</sup>, 50 ppm - Notes: Germany
- OEL Type: EU - TWA(8h): 72 mg/m<sup>3</sup>, 20 ppm
- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Skin, BEI - CNS impair, peripheral neuropathy, eye irr
- OEL Type: National - TWA: 72 mg/m<sup>3</sup>, 20 ppm - STEL(15min (Miw)): 288 mg/m<sup>3</sup>, 80 ppm - Notes: Österreich
- OEL Type: National - TWA(8h): 72 mg/m<sup>3</sup>, 20 ppm - Notes: UK

#### DNEL Exposure Limit Values

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Worker Industry: 773 mg/kg b.w./day - Consumer: 699 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 2035 mg/m<sup>3</sup> - Consumer: 608 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 699 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

propan-2-ol - CAS: 67-63-0

Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 500 mg/kg - Consumer: 89 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

n-hexane - CAS: 110-54-3

Worker Industry: 773 mg/kg b.w./day

Worker Industry: 2035 mg/m<sup>3</sup>

#### PNEC Exposure Limit Values

propan-2-ol - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Marine water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/kg

Target: Marine water sediments - Value: 552 mg/kg

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Microorganisms in sewage treatments - Value: 2251 mg/l

Target: Water (intermittent discharge) - Value: 140.9 mg/l

Target: Oral (secondary poisoning) (foodstuff) - Value: 160 mg/kg

#### Biological Exposure Index

n-hexane - CAS: 110-54-3

Value: 5 mg/g - medium: Urinary creatinine - Biological Indicator: 2.5-hexanedione in the

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urine - Sampling Period: End of turn - Source: IBE

#### 8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Use closed fitting safety goggles, don't use eye lens.

Safety goggles (EN 166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

PVA (Polyvinyl alcohol).

Respiratory protection:

Use adequate protective respiratory equipment.

Mask with filter "A1" , brown colour (NF EN14387)

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Colourless	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	82 °C	NF T67-101	--
Flammability:	Flam. Liq. 2, H225	--	--
Lower and upper explosion limit:	N.A.	--	liquid
Flash point (°C):	-7 °C	NF EN 2719	--
Auto-ignition temperature:	287 °C	--	--
Decomposition	N.A.	--	--

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temperature:			
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm <sup>2</sup> /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	11.9 mmHg (20°C)	--	--
Density and/or relative density:	0.733	ISO 649, ASTM D1298	--
Relative vapour density:	3.9	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	< 7 mm <sup>2</sup> /s (40°C)	--	--

Volatile Organic compounds - VOCs = 733 g/l

N.A. = not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

None

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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Toxicological information of the product:

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Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

The product is classified: STOT SE 3 H336

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat &gt; 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit &gt; 2800 mg/kg - Notes: 24h

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23300 mg/m<sup>3</sup> - Duration: 4h

propan-2-ol - CAS: 67-63-0

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4570 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 8h

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 25000 mg/m<sup>3</sup> - Duration: 6 hours

Test: LD50 - Route: Skin - Species: Rabbit = 12.800 mg/kg

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Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat = 500 mg/kg

STOT-repeated exposure:

Test: NOAEL - Route: Inhalation - Species: Rat = 1.3 mg/l

Test: NOAEL - Route: Inhalation Vapour - Species: Rat (Male, female) = 12.5 mg/l

cyclohexane - CAS: 110-82-7

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 19.1 mg/l - Duration: 4h

n-hexane - CAS: 110-54-3

Acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 23.3 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2800 mg/kg

**11.2. Information on other hazards**

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other toxicological information:

propan-2-ol

Severe eye damage/irritation:

Irritating to eyes

Foetal development:

Toxic effects on foetal development at doses that produce effects in mothers.

No teratogenic effects, NOAEL: 400 mg/kg Maternal No Effect Concentration: 400 mg/kg (rat)

Absence of toxic effects on foetal development. NOAEL: > 480 mg/kg. Maternal No-effect

Concentration: 240 mg/kg (rabbit)

Inhalation:

Irritating to eyes and respiratory tract (vapour, 1.0 mg/l)

-

cyclohexane

Inhalation:

Avoid inhalation of vapours: may cause lung inflammation.

Respiratory irritation:

Coughing, mucus production and shortness of breath

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

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 2 - H411

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

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a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Algae > 10 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EL50

- Species: Daphnia > 4.6 mg/l - Duration h: 48

Endpoint: LL50

- Species: Fish > 3 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: DSEO-R (NOELR) - Species: Algae = 6.3 mg/l - Duration h: 72 - Notes:  
(Pseudokirchneriella subcapitata - biomass - OECD 201)

b) Aquatic chronic toxicity:

Endpoint: DSEO-R (NOELR) - Species: Daphnia = 1 mg/l - Duration h: 504 - Notes: OECD 211

Endpoint: DSEO-R (NOELR) - Species: Fish = 0.57 mg/l - Duration h: 672 - Notes: Oncorhynchus mykiss -QSAR Petrotox

propan-2-ol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48 - Notes: Leuciscus melanotus

Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: LC50 - Species: Daphnia > 10.000 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Scenedesmus subspicatus

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: NOAEC - Species: Algae = 1800 mg/l - Duration h: 84 - Notes: Algues vertes / Green algae

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 100 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

c) Bacteria toxicity:

Species: bacteria = 1.050 mg/l

cyclohexane - CAS: 110-82-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic invertebrates > 10 mg/l - Notes: Daphnia magna

Endpoint: EC50 - Species: Aquatic invertebrates < 100 mg/l - Notes: Daphnia magna

Endpoint: EL50

- Species: Daphnia = 3 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: LC50 - Species: Fish = 4.5 mg/l - Duration h: 48 - Notes: Fathead Minnow

Endpoint: LL50

- Species: Fish > 13.4 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EL50

- Species: Algae > 10 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Aquatic plants = 9.317 mg/kg/d - Duration h: 36 - Notes: Selenastrum capricornutum

Endpoint: DSEO-R (NOELR) - Species: Algae = 10 mg/l - Duration h: 72 - Notes:  
Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: EL50

- Species: Aquatic invertebrates = 1.6 mg/l - Duration h: 504 - Notes: Daphnia magna

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Endpoint: LOEC

- Species: Aquatic invertebrates = 0.32 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: NOEC - Species: Aquatic invertebrates = 0.17 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: DSEO-R (NOELR) - Species: Daphnia = 1 mg/l - Duration h: 504 - Notes: Daphnia magna

n-hexane - CAS: 110-54-3

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Daphnia = 3 mg/l

Endpoint: EL50

- Species: Algae > 10 mg/l - Notes: Pseudokirchneriella subcapitata

Endpoint: LL50

- Species: Fish > 13.4 mg/l - Notes: Oncorhynchus mykiss

Endpoint: DSEO-R (NOELR) - Species: Algae = 10 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.17 mg/l - Duration h: 504

Endpoint: LOEC

- Species: Daphnia = 0.32 mg/l - Duration h: 504

#### 12.2. Persistence and degradability

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS

Biodegradability: Readily biodegradable - Duration: 28 days - %: 98

propan-2-ol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration: 5 days - %: 53 - Notes: Aerobie, activated sludge

Biodegradability: Oxidizes rapidly by photochemical reactions in air.

Biodegradability: Photodegradation (in air) - overall half-life time - Test: Degradation by OH radicals: Direct photolysis - Duration: 33 hours

cyclohexane - CAS: 110-82-7

Biodegradability: Biodegradability rate - Duration: 28 days - %: 9

Biodegradability: Manometer Breathing - Duration: 28 days - %: 77

n-hexane - CAS: 110-54-3

Biodegradability: Biodegradability rate - Duration: 28 days - %: 98

#### 12.3. Bioaccumulative potential

propan-2-ol - CAS: 67-63-0

Estimated not significantly bioaccumulative.

Log Pow <=4

Log Kow 0.05 - Notes: 25°C

cyclohexane - CAS: 110-82-7

Log Kow 3.44

#### 12.4. Mobility in soil

N.A.

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

vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

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No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### 12.7. Other adverse effects

No harmful effects expected.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

14 06 03\* Other solvents and solvent mixtures

## SECTION 14: Transport information



### 14.1. UN number or ID number

ADR-UN Number:	1993
IATA-UN Number:	1993
IMDG-UN Number:	1993

### 14.2. UN proper shipping name

ADR-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, propan-2-ol; isopropyl alcohol; isopropanol)
IATA-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, propan-2-ol; isopropyl alcohol; isopropanol)
IMDG-Shipping Name:	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS, propan-2-ol; isopropyl alcohol; isopropanol)

### 14.3. Transport hazard class(es)

ADR-Class:	3
ADR - Hazard identification number:	33
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3

### 14.4. Packing group

ADR-Packing Group:	II
IATA-Packing group:	II
IMDG-Packing group:	II

### 14.5. Environmental hazards

ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Yes
Most important toxic component:	HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS
IMDG-EmS:	F-E , S-E

### 14.6. Special precautions for user

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ADR-Subsidiary hazards: -  
ADR-S.P.: 274 601 640C  
ADR-Transport category (Tunnel restriction code): 2 (D/E)  
IATA-Passenger Aircraft: 353  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 364  
IATA-S.P.: A3  
IATA-ERG: 3H  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category B  
IMDG-Segregation: -  
Q.L.: 1L  
Q.E.: E2

**14.7. Maritime transport in bulk according to IMO instruments**  
N.A.

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:  
Restriction 3

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Restriction 40

Restrictions related to the substances contained:

Restriction 57

Restriction 75

Listed or in compliance with the following international inventories:

N.A.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

HYDROCARBONS, C7-C9, N-ALKANES, ISOALKANES, CYCLICS (CAS: 64742-49-0)

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

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aliphatic hydrocarbons  $\geq$  30%

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c, E2

**15.2. Chemical safety assessment**

No

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**SECTION 16: Other information**

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878.  
Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 15: Regulatory information

(EC) 1272/2008 [CLP] Yönetmeliğine göre karışımların sınıflandırmasını elde etmek için kullanılan

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siniflandirma ve prosedür:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Flam. Liq. 2, H225	On basis of test data
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 2, H411	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

Important confidentiality : this document contains confidential information that is proprietary to SOCOMORE. Subject to legal provisions determining otherwise, the distribution, republication or re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR: European Agreement concerning the International Carriage of  
Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

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DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.