

HVO 100 DIN EN 15940

Revision date: 17.12.2024

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

HVO 100 DIN EN 15940

Substance name: Alkanes, C10-20-branched and linear
REACH Registration Number: 01-2119450077-42-
CAS No: 928771-01-1
EC No: 700-571-2

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

Product Categories [PC]: 13 Fuels

1.3. Details of the supplier of the safety data sheet

Company name: Wilhelm Hoyer B.V. & Co. KG
Street: Rudolf-Diesel-Straße 1
Place: D-27374 Visselhövede
Telephone: +49 (4262) 797
E-mail: sicherheitsdatenblatt@hoyer-energie.de
Contact person: Technical Service
Responsible Department: Technical Service

Telefax: +49 (4262) 4040
Telephone: +49 (4262) 79 9603

1.4. Emergency telephone**number:** +49 (551) 19240
Gif tinformati ons zentrum - Nord**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226
Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container to hazardous or special waste collection point.

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Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This substance does not meet the criteria for classification as PBT or vPvB.

Do not handle until all safety precautions have been read and understood.

Discharge into the environment must be avoided.

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

UVCB name: Renewable hydrocarbons

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
928771-01-1	Alkanes, C10-20-branched and linear			100 %
	700-571-2		01-2119450077-42-	
	Flam. Liq. 3, Asp. Tox. 1; H226 H304 EUH066			

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		
928771-01-1	700-571-2	Alkanes, C10-20-branched and linear	100 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection!

Move victim out of danger zone.

Remove contaminated, saturated clothing.

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

After inhalation

Avoid oil mist

Get medical advice/attention if you feel unwell.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

Change contaminated clothing.

In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do NOT induce vomiting. Seek medical advice immediately.

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No administration in cases of unconsciousness or cramps.

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

May be fatal if swallowed and enters airways.

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Treat symptomatically.

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

Extinguishing powder, Foam, Carbon dioxide (CO₂), Water mist, Sand.

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

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

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

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

Provide adequate ventilation.

Avoid contact with skin and eyes.

In case of leakage, eliminate all ignition sources.

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up**Other information**

Prevent spread over a wide area (e.g. by containment or oil barriers).

Take up mechanically, placing in appropriate containers for disposal.

Remove from the water surface (e.g. skimming, sucking).

High slip hazard because of leaking or spilled product.

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

Personal protection equipment: refer to chapter 8.

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

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Advice on safe handling

- Do not breathe vapour/aerosol.
- Avoid contact with skin and eyes.
- Change contaminated, saturated clothing.

Advice on protection against fire and explosion

- Avoid oil mist
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Advice on general occupational hygiene

- Do not eat, drink, smoke or sneeze at the workplace.
- Avoid contact with skin, eyes and clothes.
- Take off contaminated clothing and wash it before reuse.
- Wash hands before breaks and after work.
- After cleaning apply high-fat content skin care cream.
- Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

- Only use containers specifically approved for the substance/product.
- Always close containers tightly after the removal of product.
- Recommended storage temperature: 15 - 25 °C.

Hints on joint storage

- Do not store together with: Oxidising agent,

Further information on storage conditions

- Protect against: Heat, Frost, moisture. Protect from direct sunlight.

7.3. Specific end use(s)

- Fuels.
- Observe technical data sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

- Air limit values: Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls**Appropriate engineering controls**

- Provide adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye/face protection**

- Suitable eye protection: Tightly sealed safety glasses. (EN 166)

Hand protection

- Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN 420, EN ISO 374.
- Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), FKM (fluororubber).
- Required properties: liquid-tight.
- penetration time (maximum wearing period): > 240 min.
- Thickness of glove material: 0,4 mm
- Before using check leak tightness / impermeability.

Skin protection

- Handling larger quantities: Wear suitable protective clothing.


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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at: aerosol or mist formation, insufficient ventilation.
Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Environmental exposure controls

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
Odour threshold:	No data available

Test method
Changes in the physical state

Boiling point or initial boiling point and boiling range:	>180 °C	ASTM D 7169
Cloudpoint:	<-7 °C	DIN EN 23015
Flash point:	>55 °C	EN ISO 2719

Flammability

Solid/liquid: Flammable

Explosive properties

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

Lower explosion limits:	0,6 vol. %	
Upper explosion limits:	7,5 vol. %	
Auto-ignition temperature:	>200 °C	
Decomposition temperature:	No data available	
pH-Value:	not applicable	
Viscosity / dynamic: (at 25 °C)	approx. 5,5 - 8 mPa·s	EN ISO 3104
Viscosity / kinematic: (at 40 °C)	2-4,5 mm ² /s	DIN EN ISO 3104
Water solubility:	approx. 0,001 g/L	EU A.8

Solubility in other solvents

Methanol, hydrocarbons.

Partition coefficient n-octanol/water:	> 6,5	
Dispersion stability:	not applicable	
Vapour pressure: (at 37,8 °C)	< 1 hPa	EN 13016-1
Vapour pressure: (at 25 °C)	0,87 hPa	EU A.4
Density (at 15 °C):	approx. 0,78-0,83 g/cm ³	EN ISO 3675
Relative vapour density:	>1	
Particle characteristics:	not applicable	

9.2. Other information
Information with regard to physical hazard classes



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Sustaining combustion: No data available

Oxidizing properties

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

Other safety characteristics

Solid content:

0

Further Information

none

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

No risks worthy of mention.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

storage stability: Do not store at temperatures over: 40 °C

This material is combustible, but will not ignite readily.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
928771-01-1	Alkanes, C10-20-branched and linear				
	oral	LD50 > 5000 mg/kg	Rat		Regulation (EC) No. 440/2008, Annex B.1 tris
	dermal	LD50 > 2000 mg/kg	Rabbit		Regulation (EC) No. 440/2008, Annex B.3

Irritation and corrosivity

Irritant effect on the skin: On short hand contact: non-irritant.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Irritant effect on the eye: slightly irritant but not relevant for classification.

Sensitising effects

Respiratory or skin sensitisation: not sensitising. No known symptoms to date.

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Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties**

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

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

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
928771-01-1	Alkanes, C10-20-branched and linear					
	Acute fish toxicity	LL50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute crustacea toxicity	EL50 mg/l	>100	48 h	Daphnia magna	OECD 202
	Fish toxicity	NOEC mg/l	>100	21 d	Oncorhynchus mykiss (Rainbow trout)	OECD 211

12.2. Persistence and degradability

Easily biodegradable (concerning to the criteria of the OECD)

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
928771-01-1	Alkanes, C10-20-branched and linear				
	OECD 301B	82	28		
	Easily biodegradable (concerning to the criteria of the OECD)				

12.3. Bioaccumulative potential

Bioaccumulative potential low

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
928771-01-1	Alkanes, C10-20-branched and linear	8,4

BCF

CAS No	Chemical name	BCF	Species	Source
928771-01-1	Alkanes, C10-20-branched and linear	116		

12.4. Mobility in soil

State of matter: liquid at room temperature.

If product enters soil, it will be mobile and may contaminate groundwater.

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.

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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Discharge into the environment must be avoided.
Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

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

Do not allow to enter into surface water or drains. Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Dispose of waste according to applicable legislation.
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Consult the local waste disposal expert about waste disposal.
Observe mixture permissions according to "Altölverordnung (Waste oil directive)".

List of Wastes Code - residues/unused products

130701 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); wastes of liquid fuels; fuel oil and diesel; hazardous waste

List of Wastes Code - used product

130701 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); wastes of liquid fuels; fuel oil and diesel; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

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

14.1. UN number or ID number:	UN 1202
14.2. UN proper shipping name:	DIESEL FUEL
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Classification code:	F1
Special Provisions:	640L ADR664
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30

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Tunnel restriction code: D/E

Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1202
14.2. UN proper shipping name: DIESEL FUEL
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Classification code: F1
 Special Provisions: 640L
 Limited quantity: 5 L
 Excepted quantity: E1

Other applicable information (inland waterways transport)

No information available.

Marine transport (IMDG)

14.1. UN number or ID number: UN 1202
14.2. UN proper shipping name: DIESELKRAFTSTOFF
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: -
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1202
14.2. UN proper shipping name: DIESELKRAFTSTOFF
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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14.6. Special precautions for user

Handling (Transport information): No special precautionary measures are necessary. See protective measures under point 7 and 8.

14.7. Maritime transport in bulk according to IMO instruments

Transport in Bulk (MARPOL 73/78, Annex I): Energy-rich fuels

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 40

Directive 2010/75/EU on industrial emissions: 100 %

Directive 2004/42/EC on VOC in paints and varnishes: 100 %

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information

Safety Data Sheet according to Regulation (EC) No 1907/2006 (amended by Regulation (EU) No 2020/878)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

The receiver of our product is singularly responsible for adhering to existing laws and regulations. Observe in addition any national regulations!

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 3,9,13,15.

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.