SAFETY DATA SHEET

HVO100

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

1.1. Product identifier

Trade name

HVO100

Unique formula identifier (UFI)

1500-C029-G00S-D7N5

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

Relevant identified uses of the substance or mixture

Fuel for diesel engines / Distribution of substance, industrial / Use as a fuel, industrial / Use as a fuel, professional / Use as a fuel, consumer
Restricted to professional and industrial use.

Uses advised against

Applications that are not registered and risk assessed.

1.3. Details of the supplier of the safety data sheet

Company and address

St1 Sverige AB
Box 11057
SE-161 11 Bromma

E-mail

Supply-Sweden@st1.se

Revision

17/12/2025

SDS Version

1.0

1.4. Emergency telephone number

In urgent situations: Call 112 and request the poison information centre. (24h service)
In less severe situations: Call 010-456 6700 (24h service)
See also section 4 “First aid measures”.

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)

Precautionary statement(s)

General

Not applicable.

Prevention

Not applicable.

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
Do NOT induce vomiting. (P331)

Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances

Renewable hydrocarbons (diesel type fraction)

Additional labelling

EUH066, Repeated exposure may cause skin dryness or cracking.

UFI: 1500-C029-G00S-D7N5

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Renewable hydrocarbons (diesel type fraction)	CAS No.: EC No.: 700-571-2 REACH: 01-2120043692-58-0000 Index No.:	~ 100 %	EUH066 Asp. Tox. 1, H304	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

ATE oral: > 2000 mg/kg
ATE dermal: > 2000 mg/kg
ATE inhalative: 23400 mg/m³

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 112, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

For containers, or container linings use carbon steel, stainless steel.

Storage conditions

Must be stored in a well-ventilated area. Storage tanks for bulk volumes must be in a bunded area. Store tanks away from heat and other sources of ignition. Gases from tanks must not be released into the atmosphere. Evaporation losses during storage must be controlled by an appropriate gas return system.

Incompatible materials

Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Oil vapour
Short term exposure limit (15 minutes) (mg/m³): 3
Long term exposure limit (8 hours) (mg/m³): 1
Annotations:
V = Indicative short term limit.

Decanes and higher aliphatic hydrocarbons
Short term exposure limit (15 minutes) (mg/m³): 500
Long term exposure limit (8 hours) (mg/m³): 350
Annotations:
V = Indicative short term limit.

The Swedish Work Environment Authority's regulations and general guideline (AFS 2023:14) on limit values for respiratory exposure in the work environment.

DNEL

Renewable hydrocarbons (diesel type fraction)

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	18 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	42 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	94 mg/m³
Long term – Systemic effects - Workers	Inhalation	147 mg/m³

PNEC

No data available.

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	A	Class 2 (medium capacity)	Brown	EN14387	

At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

Skin protection

Emergency shower should be available at the workplace.

Work situation	Recommended	Type/Category	Standards	
At risk of splashing.	Wear impervious protective clothing, gloves, apron and boots.			

Hand protection

Glove thickness must be chosen in consultation with the glove supplier.

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
At risk of splashing.	Nitrile		>240	SS-EN 420, SS-EN 374	

Eye protection

Type	Standards	
Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour / Odour threshold

Hydrocarbon

pH

No data available.

Density (g/cm^3)

765 - 800 kg/m^3 (15 °C)

Kinematic viscosity

2 - 4,5 mm^2/s (40 °C)

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

< 0 °C

Softening point/range (°C)
Does not apply to liquids.
Boiling point (°C)
180 - 330 °C
Vapour pressure
< 0.1 kPa (37.8 °C)
Relative vapour density
> 1
Decomposition temperature (°C)
No data available.
Data on fire and explosion hazards
Flash point (°C)
> 60 °C
Flammability (°C)
> 204 °C
Auto-ignition temperature (°C)
> 204
Lower and upper explosion limit (% v/v)
No data available.
Solubility
Solubility in water
Insoluble
n-octanol/water coefficient (LogKow)
No data available.
Solubility in fat (g/L)
No data available.
9.2. Other information
Other physical and chemical parameters
No data available.
Oxidizing properties
Not oxidizing

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.
10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.
10.3. Possibility of hazardous reactions
None known.
10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
10.5. Incompatible materials
Strong oxidizing agents
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2000 mg/kg

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg

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

Skin corrosion/irritation
Based on available data for the mixture, the classification criteria are not met.

Serious eye damage/irritation
Based on available data for the mixture, the classification criteria are not met.

Respiratory sensitisation
Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation
Based on available data for the mixture, the classification criteria are not met.

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

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

Reproductive toxicity
Based on available data for the mixture, the classification criteria are not met.

STOT-single exposure
Based on available data for the mixture, the classification criteria are not met.

STOT-repeated exposure
Based on available data for the mixture, the classification criteria are not met.

Aspiration hazard
May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics
None known.

11.2. Information on other hazards

Endocrine disrupting properties
This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information
None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Fish
Duration:	96 hours
Test:	LL50
Result:	> 1000 mg/l

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Algae
Duration:	72 hours
Test:	EL50
Result:	> 100 mg/l

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Crustacean
Duration:	48 hours
Test:	EL50
Result:	> 100 mg/l

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Crustacean

Duration:	21 days
Test:	NOEC
Result:	1 mg/l

Product/substance	Renewable hydrocarbons (diesel type fraction)
Species:	Crustacean
Duration:	21 days
Test:	LOEC
Result:	3,2 mg/l

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

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
Waste regulation (SFS 2020:614).

EWC code

13 07 01* Fuel oil and diesel

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/ADN/RID	UN1202	DIESEL FUEL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN1202	DIESEL FUEL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L EmS: F-E S-E See below for additional

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
						information.
IATA	UN1202	DIESEL FUEL	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Energy-rich fuels.

MARPOL Annex I rules apply for bulk shipments by sea.

Please also refer to MEPC.1/Circ.879 -GUIDELINES FOR THE CARRIAGE OF ENERGY-RICH FUELS AND THEIR BLENDS.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application

Restricted to professional and industrial use.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Waste regulation (SFS 2020:614).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.

H304, May be fatal if swallowed and enters airways.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Ramboll Sweden AB

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: SE-en