

MARLINE HVO

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

1.1 - Product identifier

Trade name/designation MARLINE HVO

Chemical name

Product-type Mixture

UFI: RE00-S00R-A008-FQTE

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

Relevant identified uses - Replacement of fossil fuels.

1.3 - Details of the supplier of the safety data sheet

MARLINE

ZA SUD ESSOR - 5, rue Marcel LALOYAU

91150 BRIERES-LES-SCELLES France

Telephone : +33 (0)1 69 92 90 99. Fax +33 (0)1 60 80 15 58.

Website <https://www.marline.fr/>

SDS CONTACT: +33 (0)1 69 92 90 99. info@marline.fr

1.4 - Emergency telephone number

- National Poisons Information Service of England: <http://npis.org> -
NHS 111: dial 111 United Kingdom

Emergency number: +33 +33 (0)3 44 25 08 29 opening hours 9am to 5pm GMT+1

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Asp. Tox. 1	Aspiration hazard - Category 1
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2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: Alkane, C10-20-branched and linear (CAS No.: 928771-01-1)

Signal word : Danger

Hazard pictograms



Hazard statements

H304	May be fatal if swallowed and enters airways.
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Precautionary statements

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/a doctor.
P331	Do NOT induce vomiting.
P501	Dispose of contents to industrial incineration plant in accordance with national regulation.

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EUH-phrases : None

2.3 - Other hazards

PBT-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

vPvB-substance. - This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

SECTION 3: Composition / information on ingredients

- The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No.	%	Class(es)	Specific concentration limit
Alkane, C10-20-brnaced and linear	CAS No. : 928771-01-1 Index No. : EC No. : 618-882-6	> 90	Asp. Tox. 1 - H304	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.

Following skin contact - After contact with skin, wash immediately with plenty of water and soap.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

After ingestion - Rinse mouth thoroughly with water.
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation - No known symptoms to date.

Symptoms and effects - Following skin contact - Repeated exposure may cause skin dryness or cracking.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - May be fatal if swallowed and enters airways.

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

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media - ABC-powder
- Carbon dioxide (CO2)

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- Extinguishing powder
- Water mist

Unsuitable extinguishing media - Full water jet

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - This material is combustible, but will not ignite readily.

Hazardous decomposition products - Carbon dioxide (CO₂)

5.3 - Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.
- Provide adequate ventilation.

For emergency responders - Wear personal protection equipment (refer to section 8).

6.2 - Environmental precautions

- Do not allow to enter into surface water or drains.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - Dike spilled liquid. Pump/collect released product into suitable containers.

Methods and material for cleaning up - Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Clean with detergents. Avoid solvent cleaners.

Inappropriate techniques - with water

6.4 - Reference to other sections

- Disposal: see section 13
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation - Ensure sufficient ventilation.
- Never siphon with your mouth

Advices on general occupational hygiene - Wash hands thoroughly after handling.

7.2 - Conditions for safe storage, including any incompatibilities

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- Keep/Store only in original container.

7.3 - Specific end use(s)

- Keep only in original packaging.

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

DNEL / PNEC

Alkane, C10-20-brnqaced and linear (928771-01-1)

Type	Value	User	Effect
DNEL long-term oral (repeated)	18 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	94 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	147 mg/m ³	Workers	Systemic
DNEL long-term dermal	42 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	18 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0,1 mg/l		
PNEC aquatic, marine water	0,01 mg/l		
PNEC aquatic, intermittent release	0,1 mg/l		
PNEC sediment, freshwater	3810 mg/kg		
PNEC sediment, marine water	3,73 mg/kg		
PNEC soil	761 mg/kg		
PNEC sewage treatment plant (STP)	10 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- Avoid contact with skin and eyes.
- Do not eat, drink or smoke during use.
- Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

- Protective gloves
- Suitable material: NBR (Nitrile rubber)
- Suitable material: PVA (Polyvinyl alcohol)
- In case of risk of splashes: Goggles with side-shields.
- Respiratory protection necessary at: exceeding exposure limit values
- Respirator with filter type A.



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- Appropriate body protection: lab coat, other work clothes.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Physical state	Liquid	Appearance	fluid
Colour	light yellow	Odour	slight odor
Odour threshold	No data available		
pH	not applicable		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	60 °C < V < 93 °C		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	< 110 kPa 50°C		
Vapour density	No data available		
Relative density	No data available		
Density	0,77 kg/l < V < 0,79 kg/l 15°C		
Solubility (Water)	not soluble		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	> 6,6		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	< 7 mm ² /s 40°C		
Dynamic viscosity	No data available		

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available
Refractive index	No data available
Solids content	No data available
Surface tension	No data available
Saturation concentration	No data available

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SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- Exposed to high temperatures, the mixture may release hazardous decomposition products, such as carbon monoxide and dioxide, fumes, nitrogen oxides

10.4 - Conditions to avoid

- Flame
- Heat

10.5 - Incompatible materials

- Oxidising agent
- Strong acid
- Strong alkali

10.6 - Hazardous decomposition products

- Carbon dioxide
- Carbon monoxide
- Ketone

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

Toxicity : Substances

Alkane, C10-20-branched and linear (928771-01-1)	
LD50 oral (rat)	2000 mg/kg < V <= 5000 mg/kg
LD50 dermal (rat)	2000 mg/kg < V <= 5000 mg/kg

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

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<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Aspiration hazard - Category 1 - May be fatal if swallowed and enters airways. - May be fatal if aspirated.

11.2 - Information on other hazards

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

Alkane, C10-20-branched and linear (928771-01-1)

EC50 48 hr crustacea	> 100 mg/l
LC50 96 hr fish	1000 mg/l 96 h
ErC50 algae	> 100 mg/l 72 h
NOEC chronic crustacea	1 mg/l 21 jours

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- Biodegradable.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	> 6,6

- No indication of bioaccumulation potential.

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12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

- This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 - Endocrine disrupting properties

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - Do not allow to enter into surface water or drains.

Special precautions for waste treatment - Send to a hazardous waste incinerator facility under observation of official regulations.
- Empty container completely. Keep the label on the container.

Community or national or regional provisions - No information available.

Waste codes / waste designations according to Regulation 2014/955/UE 13 07 01* - fuel oil and diesel

SECTION 14: Transport information

14.1 - UN number or ID number

UN number (ADR) : UN1202

UN number (IMDG) : UN1202

UN number (IATA) : UN1202

14.2 - UN proper shipping name

UN proper shipping name (ADR) : DIESEL FUEL

UN proper shipping name (IMDG) : GAS OIL

UN proper shipping name (IATA) : GAS OIL

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 3

ADR Classification code: : F1

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Pictograms



Transport hazard class(es) : 3
(IMDG)

Pictograms



Transport hazard class(es) : 3
(IATA)

Pictograms



14.4 - Packing group

Packing group : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

ADR

ADR Classification code : F1
ADR Special provisions : 640M+664
ADR Limited quantity (LQ) : 5L
ADR Excepted quantities : E1
ADR Packing instructions : P001 IBC03 LP01 R001
ADR Special packing provisions :
ADR Mixed packing provisions : MP19
Instructions for portable tanks and bulk containers : T2
Special provisions for portable tanks and bulk containers : TP1
ADR tank code : LGBV
ADR tanks special provisions :
Vehicle for tank carriage : AT
ADR Transport category : 3
ADR Tunnel restriction code : D/E
ADR Special provisions loading, unloading and handling :
Special provisions - Packages : V12
Special provisions - Bulk :
Special provisions - Operation :
ADR Hazard identification number (Kemler No.) : 30

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IMDG

<u>Special provisions</u>	:	363
<u>Limited quantity (LQ)</u>	:	5 L
<u>Excepted quantities</u>	:	E1
<u>Packing instructions</u>	:	P001 LP01
<u>Special packing provisions</u>	:	
<u>IBC instruction(s)</u>	:	IBC03
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	T2
<u>Special provisions for portable tanks and bulk containers</u>	:	TP1
<u>EmS codes</u>	:	F-E, S-E
<u>Stowage and handling</u>	:	Category A
<u>Segregation</u>	:	
<u>Properties and observations</u>	:	Immiscible with water.

IATA

<u>PCA - Excepted quantities</u>	:	E1
<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y344
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	10L
<u>PCA - Packing Instructions</u>	:	355
<u>PCA - Maximum Net Quantity per Package</u>	:	60L
<u>CAO - Packing Instructions</u>	:	366
<u>CAO - Maximum Net Quantity per Package</u>	:	220L
<u>Special Provisions</u>	:	A3
<u>ERG Code</u>	:	3L

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH None
candidates

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
3	30/10/2024		Changes to the text of the headings. Heading 13: Addition of waste code
2,2	18/06/2024		

Texts of the regulatory sentences

Asp. Tox. 1	Aspiration hazard - Category 1
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H304	May be fatal if swallowed and enters airways.
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