Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

# **SAFETY DATA SHEET**



1.1 Product identifier	
Product name	Aral HVO
UFI:	2MU4-X0EA-H004-244E
Other means of identification	Hydrotreated Vegetable Oil; Paraffinic diesel fuel from synthesis or hydrotreatment in accordance with standard EN 15940.
Proper shipping name	MARPOL Annex 1 rules apply for bulk shipments by sea. Category: Alkanes (C10–C26), linear and branched, (flashpoint ≤60°C)
SDS #	SGY2724
Product type	Clear, Liquid.
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Use of the substance/ mixture	Fuel For specific application advice see appropriate Technical Data Sheet or consult our company representative.
1.3 Details of the supplier of	of the safety data sheet
Supplier	Aral Aktiengesellschaft Wittener Str. 45 44789 Bochum Germany Telefon: +49 (0) 234 315-0
E-mail address	MSDSadvice@bp.com

### 1.4 Emergency telephone number

 EMERGENCY
 +49 (0) 30 30686 790 (Giftnotruf Berlin/Emergency Poison Centre)

 TELEPHONE NUMBER
 +49 (0) 30 30686 790 (Giftnotruf Berlin/Emergency Poison Centre)

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definitionMixtureClassification according to Regulation (EC) No. 1272/2008 [CLP/GHS]Flam. Liq. 3, H226Asp. Tox. 1, H304See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

Signal word	Danger
Hazard statements	H226 - Flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways.
Precautionary statements	
General	P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand.
Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
	P405 - Store locked up.

# SECTION 2: Hazards identification

Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	Renewable hydrocarbons (diesel type fraction)
Supplemental label elements	Repeated exposure may cause skin dryness or cracking.
EU Regulation (EC) No. 1907/	2006 (REACH)
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Special packaging requireme	<u>nts</u>
Containers to be fitted with child-resistant fastenings	Yes, applicable.
Tactile warning of danger	Yes, applicable.
2.3 Other hazards	
Results of PBT and vPvB assessment	Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	Prolonged or repeated contact may dry skin and cause irritation.
	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour may cause flash fire or explosion.

# **SECTION 3: Composition/information on ingredients**

Mixture

### 3.2 Mixtures

Product definition

May also contain small quantities of proprietary performance additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Renewable hydrocarbons (diesel type fraction)	REACH #: 01-2120043692-58 EC: 700-571-2	≥90	Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066	-	[1]

### See Section 16 for the full text of the H statements declared above.

[1] Substance classified with a health or environmental hazard

### **SECTION 4: First aid measures**

4.1 Description of first aid meas	sures
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognised skin cleanser. Drench contaminated clothing with water before removing. This is necessary to avoid the risk of sparks from static electricity that could ignite contaminated clothing. Contaminated clothing is a fire hazard. Contaminated leather, particularly footwear, must be discarded. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Aspiration hazard if swallowed. Can enter lungs and cause damage. Get medical attention immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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# **SECTION 4: First aid measures**

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

See Section 11 for more detailed information on health effects and symptoms.

dysrhythmias.

### Potential acute health effects

Inhalation	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
Ingestion	Aspiration hazard if swallowed harmful or fatal if liquid is aspirated into lungs.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.
Delayed and immediate	effects as well as chronic effects from short and long-term exposure
Inhalation	May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs. Vapour, mist or fume may irritate the nose, mouth and respiratory tract.
Ingestion	If swallowed, may irritate the mouth, throat and digestive system. If swallowed, may cause abdominal pain, stomach cramps, nausea, vomiting, diarrhoea, dizziness and drowsiness.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Vapour, mist or fume may cause eye irritation. Exposure to vapour, mist or fume may cause stinging, redness and watering of the eyes.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	Treatment should in general be symptomatic and directed to relieving any effects. Product can be aspirated on swallowing or following regurgitation of stomach contents, and can cause severe and potentially fatal chemical pneumonitis, which will require urgent treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.
Unsuitable extinguishing media	Do not use water jet. The use of a water jet may cause the fire to spread by splashing the burning product.

Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided. Gastric lavage should be undertaken only after endotracheal intubation. Monitor for cardiac

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

Hazards from the substance or mixture	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Vapours can form explosive mixtures with air. Vapours are heavier than air and can spread along the ground or float on water surfaces to remote ignition sources. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products	Combustion products may include the following: carbon oxides (CO, CO <sub>2</sub> ) (carbon monoxide, carbon dioxide)
5.3 Advice for firefighters	
Special precautions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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

For non-emergency	Immediately contact emergency personnel. No action shall be taken involving any personal risk
personnel	or without suitable training. Eliminate all ignition sources. Evacuate surrounding areas. Keep
	unnecessary and unprotected personnel from entering. Do not touch or walk through spilt
	material. Floors may be slippery; use care to avoid falling. No flares, smoking or flames in
	hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.
	appropriate personal protective equipment.

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SECTION 6: Accidental release measures				
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".			
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).			
6.3 Methods and material for	containment and cleaning up			
Small spill	Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark- proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres.			
Large spill	Eliminate all ignition sources. Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spill area and do not allow product to reach sewage system and surface or ground water. 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. Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product. The method and equipment used must be in conformance with appropriate regulations and industry practice on explosive atmospheres. Dispose of via a licensed waste disposal contractor.			
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 5 for firefighting measures. See Section 8 for information on appropriate personal protective equipment. See Section 12 for environmental precautions. See Section 13 for additional waste treatment information.			

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment. Do not swallow. Aspiration hazard if swallowed. Can enter lungs and cause damage. Never siphon by mouth. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Do not reuse container. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep away from heat and direct sunlight. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/containers designed for use with this product. Do not store in unlabelled containers.
Germany - Storage code	3
7.3 Specific end use(s)	
Recommendations	See section 1.2 and Exposure scenarios in annex, if applicable.

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# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

**Recommended monitoring** procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **Biological exposure indices**

### **Product/ingredient name**

#### **Exposure indices**

No exposure indices known.

### **Derived No Effect Level**

Product/ingredient name	Туре	Expo	osure	Value	Population	Effects
Renewable hydrocarbons (diesel type fraction)	DNEL	Long term Inhalation	-	147 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	-	42 mg/kg bw/ day	Workers	Systemic
	DNEL	Long term Inhalation	-	94 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	-	18 mg/kg bw/ day	General population	Systemic
	DNEL	Long term Oral	-	18 mg/kg bw/ day	General population	Systemic

#### **Predicted No Effect Concentration**

Product/ingredient name	Compartment Detail	Value	Method Detail
Renewable hydrocarbons (diesel type fraction)	Secondary Poisoning	33.3 mg/kg	-
	Fresh water	0.01 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Intermittent release	0.1 mg/l	Assessment Factors
	Fresh water sediment	3810 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	3.73 mg/kg dwt	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Soil	761 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls			
Appropriate engineering controls	Provide exhaust ventilation or other engineer concentrations below their respective occup All activities involving chemicals should be a exposures are adequately controlled. Person after other forms of control measures (e.g. e Personal protective equipment should confo kept in good condition and properly maintain Your supplier of personal protective equipment appropriate standards. For further information The final choice of protective equipment will ensure that all items of personal protective equipment	ational exposure limits. assessed for their risks to health, to enal protective equipment should only engineering controls) have been suita form to appropriate standards, be suita ned. ent should be consulted for advice o on contact your national organisation depend upon a risk assessment. It i	ensure be considered ably evaluated. able for use, be n selection and n for standards.
Individual protection measu	res		
Hygiene measures	Wash hands, forearms and face thoroughly smoking and using the lavatory and at the elestations and safety showers are close to the	nd of the working period. Ensure that	
Respiratory protection	If local exhaust ventilation or other methods wear suitable respiratory protective devices. there is a risk of exposure limits being excee depend upon a risk assessment of the work If required, the respiratory device must be ca (EX Label). Respiratory protective devices n time they are worn. Please consult European selection, use, care and maintenance of resp	Wear suitable respiratory protective eded. The choice of suitable respiratory place environment and the task bein ertified as safe in defined explosive a nust be checked to ensure they fit co n standard EN 529 for further guidar	e devices if ory device will g carried out. atmospheres prrectly each
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### SECTION 8: Exposure controls/personal protection

Suitable breathing apparatus (independent of ambient atmosphere) must be worn if any of the following situations apply.

- When the workplace atmosphere is considered to be immediately dangerous to life and health.
- When there is a risk of the workplace atmosphere being oxygen deficient.
- When the workplace atmosphere is uncontrolled.
- When the workplace atmosphere is unknown.
- When there is a risk of loss of consciousness or asphyxiation
- When entry into a confined space is required.
- When there is a risk of gases being released that could be a fire or explosion hazard.

- When the concentration of contaminants in the atmosphere exceeds the level of protection

(maximum allowed concentration) given by a filtering device

- When the contaminants have a low odour that would not be tasted or smelt by the wearer of a filtering device if the filter became exhausted or saturated.

- When there is a risk of hydrogen sulphide exposure limits being exceeded.

If there is a requirement for the use of a respiratory protective device, but the use of breathing apparatus (independent of ambient atmosphere) is not required, then a suitable filtering device must be worn.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/ aerosol/particulates) that may arise when handling the product.

**Recommended:** Combined filter suitable for gases, vapours and particles (dust, smoke, mist, aerosol). Filter type: AP

Eye/face protection Skin protection

Hand protection

Chemical splash goggles.

### **General Information:**

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Wear chemical resistant gloves.

Do not re-use gloves.

Protective gloves will deteriorate over time due to physical and chemical damage. Inspect and replace gloves on a regular basis.

Protective gloves must give suitable protection against mechanical risks (i.e. abrasion, blade cut and puncture).

The frequency of replacement will depend upon the circumstances of use.

### Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above. It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### **Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

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# **SECTION 8: Exposure controls/personal protection**

	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.
	Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:
	• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
	• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.
Skin and body	Wear suitable protective clothing. Footwear highly resistant to chemicals. When there is a risk of ignition wear inherently fire resistant protective clothes and gloves. Refer to standard: ISO 11612 When there is a risk of ignition from static electricity, wear anti-static protective clothing. For greatest effectiveness against static electricity, overalls, boots and gloves should all be anti- static. Refer to standard: EN 1149 Cotton or polyester/cotton overalls will only provide protection against light superficial contamination. When the risk of skin exposure is high (from experience this could apply to the following tasks: cleaning work, maintenance and service, filling and transfer, taking samples and cleaning up spillages) then a chemical protective suit and boots will be required. Work clothing / overalls should be laundered on a regular basis. Laundering of contaminated work clothing should only be done by professional cleaners who have been told about the hazards of the contamination. Always keep contaminated work clothing away from uncontaminated work clothing and uncontaminated personal clothes.
<u>Refer to standards:</u>	Respiratory protection: EN 529 Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149 Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
SECTION 9. Physical	and chemical properties

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

Physical state	Clear, Liquid.					
Colour	Colourless to light yellow.					
Odour	Characteristic. Mild.					
Odour threshold	Not available.					
Melting point/freezing point	<-20°C (<-4°F) [BS 4633 EU A.1	]				
Initial boiling point and boiling range	180 to 390°C (356 to 734°F)					
Flammability	Flammable liquid and vapour.					
Lower and upper explosion limit	Lower: 0.8% Upper: 5.4% (Based on n-Decane)					
Flash point	Closed cup: >55°C (>131°F) [IS0	O 2719]				
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# **SECTION 9: Physical and chemical properties**

SECTION 9: Physical and	d chemical prop	perties				
Auto-ignition temperature	204°C (399.2°F) [EU	204°C (399.2°F) [EU A.15]				
Decomposition temperature	Not observed to deco	Not observed to decompose by final boiling point: >390°C (>734°F)				
рН	Not applicable. Produ	Not applicable. Product is non-soluble (in water).				
Kinematic viscosity	Dynamic: <0.005 Pa·s (<5 cP) at 20°C Kinematic: 2.6 mm²/s (2.6 cSt) at 40°C Kinematic: 4 mm²/s (4 cSt) at 20°C (OECD 114)					
Solubility						
	Media	Result				
	water methanol n-octanol	Not soluble Soluble Soluble				
Partition coefficient n-octanol/ water (log value)	>6.5 [EU A.8]					
Vapour pressure	0.087 kPa (0.65255 r	nm Hg) [25°C (77°F)]				
Density and/or Relative density	0.77 to 0.79 [EU A.3]					
Density and/or Relative density	765 to 800 kg/m <sup>3</sup> (0.7	765 to 800 kg/m³ (0.765 to 0.8 g/cm³) at 15°C				
Relative vapour density	>1 [Air = 1]					
Particle characteristics						
Median particle size	Not applicable.					
9.2 Other information						
Evaporation rate	Not applicable. Base	ed on low volatility.				
Explosive properties	Not considered to be	a product presenting a risk of explosion. (EC A14)				
Oxidising properties	Not an oxidiser.					
Miscible with water	No.					
Remarks	Physical and chemica	al properties: Based on: Renewable hydrocarbons (diesel type fraction)				

# SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Avoid excessive heat.
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
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/ingredient name	Result / Route		thority / nber	Species	Dose	Exposure	Remarks
Renewable hydrocarbons (diesel type fraction)	LC50 Inhalation Vapour	Equivalent to OECD	403	Rat - Male	4467 ppm	8 hours	Based on n nonane
	LD50 Dermal	EU	B3	Rat	>2000 mg/kg No mortality	-	-
	LD50 Oral	EU	B1 tris	Rat - Female	>2000 mg/kg No mortality	-	-
Conclusion/Summary Acute toxicity estimates Not available.		ed. Based o	n availabl	e data, the clas	sification criteria a	are not met.	

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### **SECTION 11: Toxicological information**

rritation/Corrosion						
Product/ingredient Test authority / Test name number		Species	Route / Result	Test concentration	Remarks	
Renewable hydrocarbons (diesel type fraction)	EU	B5	Rabbit	Eyes - Non- irritating to the eyes.	-	-
	EU	B4	Rabbit	Skin - Non-irritant to skin.	-	-

Skin Eyes

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

**Sensitiser** 

Product/ingredient name	Route		hority / Test umber	Species	Result	Remarks
Renewable hydrocarbons (diesel type fraction)	skin	EU	B6	Guinea pig	Not sensitising	-

### Skin

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

### **GERM CELL MUTAGENICITY**

Product/ingredient name	Test autho Test num	-		Туре	Result	Remarks
Renewable hydrocarbons (diesel type fraction)	EU B17	Cell: Somatic	Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
	EU B10	Cell: Somatic	Experiment: In vitro	Subject: Mammalian- Human	Negative	-
	EU B13/14	-	-	Subject: Bacteria	Negative	-

**Conclusion/Summary** 

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

**Carcinogenicity** 

Not available.

#### **Conclusion/Summary**

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

### **Reproductive toxicity**

Product/ ingredient name	Test authority / Test number	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
Renewable hydrocarbons (diesel type fraction)	Equivalent 416 to OECD	Rat	Oral	-	Negative	Negative	Negative	-

**Conclusion/Summary** 

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

### Aspiration hazard

Product/ingredient name	Result
Renewable hydrocarbons (diesel type fraction)	ASPIRATION HAZARD - Category 1

May be fatal if swallowed and enters airways. Classification on basis substance is a hydrocarbon and has a kinematic viscosity of 20.5 mm2/s or less, measured at 40°C.

### Specific target organ toxicity

**Conclusion/Summary** 

	Product/ ingredient name	Hazard	Test auth Test nun		Species	Route	Туре	Dose	Exposure	Target organs	Remarks
	Renewable hydrocarbons (diesel type fraction)	-	Equivalent to OECD	408	Rat	Oral	NOAEL	1000 mg/ kg	-	-	-
C	onclusion/Sun	nmary	Not cla	ssified. B	ased on av	ailable da	ta, the classi	fication crite	eria are not r	net.	
	formation on li outes of exposu		Routes	s of entry	anticipated	: Dermal, I	Inhalation, Ey	/es.			
P	<u>otential acute h</u>	nealth effects	2								

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# **SECTION 11: Toxicological information**

Inhalation	Vapour inhalation under ambient conditions is not normally a problem due to low vapour pressure.
Ingestion	Aspiration hazard if swallowed harmful or fatal if liquid is aspirated into lungs.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Inhalation	No specific data.
Ingestion	Adverse symptoms may include the following: nausea or vomiting
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Eye contact	No specific data.
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
Inhalation	May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs. Vapour, mist or fume may irritate the nose, mouth and respiratory tract.
Ingestion	If swallowed, may irritate the mouth, throat and digestive system. If swallowed, may cause abdominal pain, stomach cramps, nausea, vomiting, diarrhoea, dizziness and drowsiness.
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Vapour, mist or fume may cause eye irritation. Exposure to vapour, mist or fume may cause stinging, redness and watering of the eyes.
Potential chronic health effe	<u>ects</u>
General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Not available.
11.2.2 Other information
Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name		uthority / number	Species	Type / Result	Exposure	Effects	Remarks
Renewable hydrocarbons (diesel type fraction)	OECD	209	Micro- organism	EC50 >1000 mg/l Nominal Fresh water	30 minutes	Respiration rate	-
	OECD	209	Micro- organism	EC50 >1000 mg/l Nominal Fresh water	3 hours	Respiration rate	-
	OECD	201	Algae	Acute EL50 >100 mg/l Nominal Fresh water	72 hours	(growth rate)	-
	OECD	202	Daphnia	Acute EL50 >100 mg/l Nominal Fresh water	48 hours	Immobilisation	-
	OECD	203	Fish	Acute LL50 >1000 mg/l Nominal Fresh water	96 hours	Mortality	-
	OECD	211	Daphnia	Chronic LOEC 3.2 mg/l Nominal Fresh water	21 days	Reproduction	-
	OECD	211	Daphnia	Chronic NOEC 1 mg/l Nominal Fresh water	21 days	Reproduction	-
Environmental hazards	No	ot classified	as dangero	us			

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# **SECTION 12: Ecological information**

### 12.2 Persistence and degradability

Readily biodegradable								
Product/ingredient name	Test authority / Test numbe	r Result - Exposure	Remarks					
Renewable hydrocarbons (diesel type fraction)	OECD 301B	82 % - Readily - 28 days	-					

### 12.3 Bioaccumulative potential

There is potential for the product to bioaccumulate.

Product/ingredient name	LogPow	BCF	Potential
Renewable hydrocarbons (diesel type fraction)	8.4	116	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	Not available.
Mobility	If released to soil it will evaporate at a low rate. This material may accumulate in sediments. insoluble in water.

### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

SECTION 13: Disposal considerations				
12.7 Other adverse effects	No known significant effects or critical hazards.			
12.6 Endocrine disrupting properties	Not available.			

#### 13.1 Waste treatment methods **Product** Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations. Hazardous waste Yes. European waste catalogue (EWC)

Waste code	Waste designation
13 07 01*	fuel oil and diesel

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

### Packaging

ruonuging	
Methods of disposal	Where possible, arrange for product to be recycled. Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packaging and should not be removed.
References	Commission 2014/955/EU Directive 2008/98/EC

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Conforms to Regulation (EC) No. 1907/2006 (R	REACH), Annex II, as amended by	Commission Regulation (EU) 2020/878
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#### **SECTION 14: Transport information** ADR/RID **ADN** IMDG ΙΑΤΑ 14.1 UN number UN1202 UN1202 UN1202 UN1202 or ID number 14.2 UN proper DIESEL FUEL DIESEL FUEL DIESEL FUEL Diesel fuel shipping name 14.3 Transport 3 3 3 3 hazard class(es) Ш Ш Ш Ш 14.4 Packing group 14.5 No. No. No. No. **Environmental** hazards **Additional** Hazard identification number Remarks Table: C. Emergency schedules information 30 Danger: 3+F F-E, S-E Tunnel code D/E 14.6 Special precautions for Not available. user **ADR/RID Classification** F1 code: **ADN Classification code:** F1 14.7 Maritime transport in Proper shipping name MARPOL Annex 1 rules apply for bulk shipments by sea. Category: Alkanes (C10-C26), linear and branched, bulk according to IMO instruments (flashpoint ≤60°C) **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Aral HVO	95-100	3
		3 [Lamp fuel]
		3 [Grill lighter fluid]
toluene	<0.001	48

Labelling

**Other regulations** 

(TSCA 8b)

**REACH Status** 

**Canada** inventory China inventory (IECSC)

**United States inventory** 

Not applicable.

The company, as identified in Section 1, sells this product in the EU in compliance with the current requirements of REACH. Not determined. Australia inventory (AIIC) Not determined. Not determined. Not determined.

Japan inventory (CSCL) At least one component is not listed.

Korea inventory (KECI) Not determined. **Philippines inventory** Not determined. (PICCS) 001/0704 40144

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SECTION 15: Regulate	ory information				
Taiwan Chemical Substances Inventory	Not determined.				
(TCSI) Explosive precursors	Not applicable.				
Ozone depleting substances					
Not listed.					
Prior Informed Consent (PIC	) (649/2012/EU)				
Not listed.					
Persistent Organic Pollutant Not listed.	<u>s</u>				
EU - Water framework direct	ive - Priority substances				
None of the components are li	sted.				
<u>Seveso Directive</u>					
This product is controlled under	the Seveso Directive.				
Danger criteria					
Category					
P5c					
National regulations					
Hazardous incident ordinand	<u>:e</u>				
This product is controlled under	r the Germany Hazardous Incident Ordinance.				
Danger criteria					
Category		Reference number			
P5c		1.2.5.3			
Hazard class for water	1 (classified according AwSV)				
Prohibited Chemicals Regulation (ChemVerbotsV)	When placed on the market in Germany, this pro Regulation (ChemVerbotsV).				
Occupational restrictions	Observe employment restrictions in the following: Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG) Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium (Mutterschutzgesetz – MuSchG)				
15.2 Chemical safety assessment	A Chemical Safety Assessment has been carried this mixture. A Chemical Safety Assessment has				
ECTION 16: Other in	formation				
bbreviations and acronyms	ADN = European Provisions concerning the Interna Inland Waterway ADR = The European Agreement concerning the In Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service	ternational Carriage of Dangerous Goods b			
	CLP = Classification, Labelling and Packaging Regi CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commerce				
	ES = Exposure Scenario				

- EUH statement = CLP-specific Hazard statement
- EWC = European Waste Catalogue
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- 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)

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# **SECTION 16: Other information**

OECD = Organisation for Economic Co-operation and Development PBT = Persistent. Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006] RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SADT = Self-Accelerating Decomposition Temperature 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 UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23, 64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN 01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN 01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN 01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN 01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN 01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8, 64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 / RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN 01-2119474889-13

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Flam. Liq. 3, H226 Asp. Tox. 1, H304		Expert judgment Calculation method
Full text of abbreviated H statements	H304	lammable liquid and vapour. Aay be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking.
Full text of classifications [CLP/GHS]	•	ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3
Exposure Scenario information		afety measures have been included into the applicable sections ce of appending an exposure scenario.
<u>History</u>		
Date of issue/ Date of revision	15/11/2024.	
Date of previous issue	15/11/2024.	
Prepared by	Product Stewardship	

#### **V** Indicates information that has changed from previously issued version.

### Notice to reader

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