	<b>SAFETY DATA SHEET</b>	Page : 1 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

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

### 1.1. Product identifier

Product form	: Substance
Trade name/designation	: Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil
Chemical name	: Fuel oil, residual, Heavy Fuel oil
EC-No.	: 270-675-6
CAS-No.	: 68476-33-5
REACH registration No	: 01-2119474894-22-0147
Product group	: Trade product

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture	: Fuels Further information: see exposure scenarios attached to this safety data sheet.
------------------------------	--

Title	Use descriptors
Use as an intermediate (ES Ref.: 02)	SU8, SU9, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC6a, ESVOC SPERC 6.1a.v1
Distribution (ES Ref.: 03)	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ESVOC SPERC 1.1b.v1
Uses in coatings (ES Ref.: 05)	SU3, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC4, ESVOC SPERC 4.3a.v1
Use as a fuel (ES Ref.: 07)	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16, ERC7, ESVOC SPERC 7.12a.v1
Uses in coatings (ES Ref.: 06)	SU22, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC8a, ERC8b, ESVOC SPERC 8.3b.v1
Use as a fuel (ES Ref.: 08)	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16, ERC9a, ERC9b, ESVOC SPERC 9.12b.v1
Road and construction applications (ES Ref.: 09)	PROC8a, PROC8b, ERC8d, ERC8f, ESVOC SPERC 8.15.v1
Formulation & (re)packing of substances and mixtures (ES Ref.: 04)	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC2, ESVOC SPERC 2.2.v1

Full text of use descriptors: see section 16

#### 1.2.2. Uses advised against


No data available

### 1.3. Details of the supplier of the safety data sheet

Trafigura Ventures V.B.V.  
Evert van de Beekstraat 1-82  
The Base, Tower B - 5th Floor  
1118 CL Schiphol - The Netherlands  
T +31 20 504 1800  
[TrafiguraReach@trafigura.com](mailto:TrafiguraReach@trafigura.com)

### 1.4. Emergency telephone number

Emergency number	: +32 3 575 03 30 This telephone number is available 24 hours per day, 7 days per week.
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	<b>SAFETY DATA SHEET</b>	Page : 2 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Inhalation)	H332
Carc. 1B	H350
Repr. 2	H361d
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H statements : see section 16

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word :

Danger

Hazard statements (CLP) :

H304 - May be fatal if swallowed and enters airways.  
H332 - Harmful if inhaled.  
H350 - May cause cancer.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :


P201 - Obtain special instructions before use.  
P260 - Do not breathe fume, mist, vapours, gas.  
P273 - Avoid release to the environment.  
P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P501 - Dispose of contents and container to an approved waste disposal plant.

Extra phrases :

EUH066 - Repeated exposure may cause skin dryness or cracking.  
Restricted to professional users

Listed in Annex VI :

EC Index-No. : 649-009-00-7

	<b>SAFETY DATA SHEET</b>	Page : 3 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

### 2.3. Other hazards

Other hazards : PBT/vPvB data. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

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

### 3.1. Substances

Comments : UVCB

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), petroleum residues vacuum Heavy fuel oil	(CAS-No.) 68476-33-5 (EC-No.) 270-675-6 (EC Index) 649-009-00-7 (REACH-no) 01-2119474894-22-0147	100	Acute Tox. 4 (Inhalation), H332 Carc. 1B, H350 Repr. 2, H361d STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. See also section 8. Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. In case of doubt or persistent symptoms, consult always a physician.

Inhalation : Keep at rest. Provide fresh air. In case of shortness of breath, give oxygen. Give oxygen or artificial respiration if necessary. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.

Ingestion : Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

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


Inhalation : Harmful if inhaled. May cause respiratory irritation.

Skin contact : Harmful: danger of serious damage to health by prolonged exposure in contact with skin. Contact with hot product will cause thermal burns. Repeated exposure may cause skin dryness or cracking.

Eyes contact : Contact with eyes may cause irritation. Contact with hot product will cause thermal burns. Swelling of tissue. Blurred vision .

Ingestion : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic symptoms : May cause cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

	<b>SAFETY DATA SHEET</b>	Page : 4 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

#### **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 : Dry sand. Carbon dioxide. dry extinguishing powder. powdered form. Water spray .  
 Unsuitable extinguishing media : Strong water jet.

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

Specific hazards : On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks. Temperature above flashpoint: higher fire/explosion hazard. Do not allow run-off from fire-fighting to enter drains or water courses. Hazardous decomposition products. Sulfuric acid.  
 Explosion hazard : Vapours may form explosive mixture with air.  
 Hazardous decomposition products in case of fire : Burning produces noxious and toxic fumes. Carbon oxides (CO, CO<sub>2</sub>). Sulphur oxides. Hydrogen sulfide.

#### **5.3. Advice for firefighters**

Firefighting instructions : Special protective equipment for firefighters. . Use water spray or fog for cooling exposed containers. Cover the spilled liquid product with foam to slow down evaporation. Evacuate personnel to a safe area.  
 Protection during firefighting : Self-contained breathing apparatus.  
 Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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

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

##### **6.1.1. For non-emergency personnel**

For non-emergency personnel : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Do not breathe vapour/aerosol. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed.

##### **6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

#### **6.2. Environmental precautions**


Do not allow to enter into surface water or drains. Should not be released into the environment. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Dispose of as special waste in compliance with local and national regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

#### **6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

	<b>SAFETY DATA SHEET</b>	Page : 5 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate information, instruction and training for operators. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Use product only in closed system. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Ensure equipment is adequately earthed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with combustibles... Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). See also section 10.

Hygiene measures : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Separate working clothes from town clothes. Take off contaminated clothing. Keep away from food, drink and animal feedingstuffs.

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

Technical measures : Keep container tightly closed in a cool, well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Special rules on packaging : Keep in properly labelled containers.

Packaging materials : Keep only in the original container.

### 7.3. Specific end use(s)

see attached exposure scenario.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters


Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil (68476-33-5)	
DNEL/DMEL (workers)	
Acute - systemic effects, inhalation	4700 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,065 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,12 mg/m <sup>3</sup>
DNEL/DMEL (general population)	
Long-term - systemic effects, oral	0,015 mg/kg bodyweight/day
PNEC (Oral)	
PNEC oral (secondary poisoning)	66,7 kg/kg

Additional information : Exposure limits :. Personal monitoring. Room air monitoring

### 8.2. Exposure controls

Engineering measure(s) : Use product only in closed system. Use only in area provided with appropriate exhaust ventilation. Provide adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.


	<b>SAFETY DATA SHEET</b>	Page : 6 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

Hand protection	: Wear chemically resistant gloves (tested to EN374) . rubber gloves. NBR (Nitrile rubber). Material thickness: 0,54mm. Breakthrough time : : >240min. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Eye protection	: Safety glasses (EN 166)
Body protection	: Wear suitable coveralls to prevent exposure to the skin
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Filter type: (A - EN 141). Half-face mask (DIN EN 140). full face mask (DIN EN 136). Self-contained open-circuit compressed air breathing apparatus (EN 137)
Thermal hazard protection	: Use dedicated equipment. Heat resistant gloves (EN 407).
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: viscous liquid.
Colour	: Yellow.
Odour	: petroleum hydrocarbon odour.
Odour threshold	: No data available
pH	: NA: UVCB
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: < 30 °C
Freezing point	: No data available
Initial boiling point and boiling range	: 150 - > 750 °C
Flash point	: > 60 °C
Auto-ignition temperature	: 220 - 550 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,liquid
Vapour pressure	: 0.02 - 0.791 kPa (120°C) 0.063 - 0.861 kPa (150°C)
Vapour density	: > 1 Vapour density
Relative density	: No data available
Density	: 840 - 1200 kg/m <sup>3</sup> (15°C)
Solubility	: No data available
Partition coefficient n-octanol/water	: NA: UVCB
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: NA: The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

	<b>SAFETY DATA SHEET</b>	Page : 7 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

Oxidising properties : NA: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

Explosive limits : No data available

### **9.2. Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Reference to other sections: 10.5.

### **10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

### **10.3. Possibility of hazardous reactions**

None under normal processing.

### **10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. See also section 7. Handling and storage.

### **10.5. Incompatible materials**

Incompatible with strong acids and oxidizing agents. Bases . See also section 7. Handling and storage.

### **10.6. Hazardous decomposition products**

Burning produces noxious and toxic fumes. Carbon oxides. Sulphur oxides. Sulphuric acid. Hydrogen sulfide (H<sub>2</sub>S).

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Inhalation: Harmful if inhaled.

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: NA: UVCB

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)  
pH: NA: UVCB

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging the unborn child.  
NOAEL = 125 - 2000 mg/kg BW/d

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)


STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.  
NOAEL = > 1 mg/kg BW/d

Aspiration hazard : May be fatal if swallowed and enters airways.

### **Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil (68476-33-5)**

Kinematic viscosity	< 3 mm <sup>2</sup> /s (100°C)
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Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
Reference to other sections: 4.2.

	<b>SAFETY DATA SHEET</b>	Page : 8 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : Very toxic to aquatic life with long lasting effects.

Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil (68476-33-5)	
Acute aquatic toxicity, Invertebrates	EL50 = 2 mg/l
Acute (short-term) algae toxicity, ErL50 = 0,75 mg/l	
Acute (short-term) fish toxicity, LL50	79 mg/l
Chronic (long-term) fish toxicity, NOEL	0.1 mg/l
Long term effects, Invertebrates, NOEL	0,75 mg/l
Bird reproduction toxicity, NOAEL	20000 mg/l

Distillates (petroleum), petroleum residues vacuum Heavy fuel oil (68476-33-5)	
Acute aquatic toxicity, Invertebrates	EL50 = 2 mg/l
Acute (short-term) algae toxicity, ErL50 = 0,75 mg/l	
Acute (short-term) fish toxicity, LL50	79 mg/l
Chronic (long-term) fish toxicity, NOEL	0.1 mg/l
Long term effects, Invertebrates, NOEL	0,75 mg/l
Bird reproduction toxicity, NOAEL	20000 mg/l

### 12.2. Persistence and degradability

Distillates (petroleum), petroleum residues vacuum Heavy fuel oil (68476-33-5)	
Persistence and degradability	Not applicable.

### 12.3. Bioaccumulative potential

Distillates (petroleum), petroleum residues vacuum Heavy fuel oil (68476-33-5)	
Partition coefficient n-octanol/water	NA: UVCB

### 12.4. Mobility in soil

Distillates (petroleum), petroleum residues vacuum Heavy fuel oil (68476-33-5)	
Ecology - soil	Not applicable. UVCB.

### 12.5. Results of PBT and vPvB assessment

ingredient	
Distillates (petroleum), petroleum residues vacuum Heavy fuel oil (68476-33-5)	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

Additional information : No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Safe handling: see section 7. Handling and storage. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

Additional information : Never use pressure to empty container. Do not burn, or use a cutting torch on the empty drum. Do not puncture or incinerate. Delivery to an approved waste disposal company. Dispose of contaminated materials in accordance with current regulations.





# SAFETY DATA SHEET

Page : 9 / 14

Revision nr : 3.0

Issue date : 20/03/2018

Supersedes : 16/08/2016

## Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil

Further ecological information : Do not allow to enter into surface water or drains.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

The following Waste Codes are only suggestions:  
 130701 - fuel oil and diesel  
 150110 - packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
3082	3082	3082	3082	3082
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil)	Environmentally hazardous substance, liquid, n.o.s. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil)
<b>Transport document description</b>				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil), 9, III, (E)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Distillates (petroleum), petroleum residues vacuum Heavy fuel oil), 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
ADN : N1				

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : M6  
 Special provisions : 274, 335, 601, 375  
 Limited quantities (ADR) : 5l



# SAFETY DATA SHEET

Page : 10 / 14

Revision nr : 3.0

Issue date : 20/03/2018

Supersedes : 16/08/2016

## Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil

Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Special packing provisions (ADR) : PP1  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4  
Portable tank and bulk container special provisions (ADR) : TP1, TP29  
Tank code (ADR) : LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :




Tunnel restriction code : E  
EAC code : •3Z

### - Transport by sea

Special provisions (IMDG) : 274, 335, 969  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP2, TP29  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

### - Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 964  
PCA max net quantity (IATA) : 450L  
CAO packing instructions (IATA) : 964  
CAO max net quantity (IATA) : 450L  
Special provisions (IATA) : A97, A158, A197  
ERG code (IATA) : 9L

	<b>SAFETY DATA SHEET</b>	Page : 11 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

**- Inland waterway transport**

Classification code (ADN) : M6  
Special provisions (ADN) : 274, 335, 375, 601  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP  
Number of blue cones/lights (ADN) : 0

**- Rail transport**

Classification code (RID) : M6  
Special provisions (RID) : 274, 335, 375, 601  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Special packing provisions (RID) : PP1  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP29  
Tank codes for RID tanks (RID) : LGBV  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 90

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Code: IBC : This product is being carried under the scope of MARPOL Annex I Residual fuel oil.


**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil

	<b>SAFETY DATA SHEET</b>	Page : 12 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil
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Distillates (petroleum), petroleum residues vacuum

Heavy Fuel oil

is not on the REACH Candidate List

Distillates (petroleum), petroleum residues vacuum

Heavy Fuel oil

is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV; ID No. 443)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

TA Luft : Carcinogenic substances

##### Netherlands

Waterbezwaarlijkheid : 3 - May cause cancer. (A)

SZW-lijst van kankerverwekkende stoffen : Distillates (petroleum), petroleum residues vacuum Heavy fuel oil is listed

SZW-lijst van mutagene stoffen : Distillates (petroleum), petroleum residues vacuum Heavy fuel oil is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product


#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

### SECTION 16: Other information

Indication of changes:

1.3	SDS address	Modified	
2.2	Precautionary statements (CLP)	Modified	
16	Other information	Added	

	<b>SAFETY DATA SHEET</b>	Page : 13 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGT = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). Information Supplier. European Chemicals Agency LOLI.

Training advice : Manipulations are to be done only by qualified and authorised persons. Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - chronic hazard category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Repr. 2	Reproductive toxicity, Hazard Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

	<b>SAFETY DATA SHEET</b>	Page : 14 / 14
		Revision nr : 3.0
	<b>Distillates (petroleum), petroleum residues vacuum Heavy Fuel oil</b>	Issue date : 20/03/2018
		Supersedes : 16/08/2016

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
	Restricted to professional users
EUH066	Repeated exposure may cause skin dryness or cracking.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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