

Safety Data Sheet

Identification of the substance/mixture and of the company/undertaking

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 04.04.2006 Version: 8.0 Revision date: 30.04.2014

Product identifier 1.1.

: Substance Chemical type

: Vacuum residuum DC feed Name Trade name Vacuum residuum DC feed

FC no : 265-076-1 CAS No : 64741-75-9 REACH registration No. : 01-2119489964-16

: L13350 Local code

IUPAC : Residues (petroleum), hydrocracked Chemical name : Residues (petroleum), hydrocracked

: Vacuum residum DC feed Synonyms

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

1.2.1. Relevant identified uses

Main use category Industrial use, Professional use, Consumer use

Industrial/Professional use spec Distribution of substance

Formulation & (re)packing of substances and mixtures

Lubricants

Manufacture of substance Rubber production and processing

Use as a fuel

Use in Oil and Gas field drilling and production operations

Road and construction applications

Use as an intermediate Uses in Coatings

Construction materials additives, Fuels, Impregnation agents, Intermediates, Lubricants Function or use category

and additives

1.2.2. Uses advised against

No relevant data available

Details of the supplier of the safety data sheet

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Country	Organisation/Company	Address	Emergency number
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36-80-20-11-99
SLOVAKIA	Toxikologické informačné centrum FN s poliklinikou University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
UNITED KINGDOM	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0870 600 6266 (UK only)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0870 600 6266 (UK only)
UNITED KINGDOM	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0870 600 6266 (UK only)
UNITED KINGDOM	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh	51 Little France Crescent EH16 4SA Edinburgh	0870 600 6266 (UK only)
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
UNITED KINGDOM	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0870 600 6266 (UK only)

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Hazards identification

2.1. Classification of the substance or mixture

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

H332 Acute Tox. 4 (Inhalation) Carc. 1B H350 H361 Repr. 2 STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16 Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.2; R45 Repr.Cat.3; R63 Xn; R20 Xn; R48/21 R66 N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects 2.1.3.

No relevant data available

Label elements 2.2.

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS] 2.2.1.

Hazard pictograms (CLP)







Signal word (CLP) : Danger

Hazard statements (CLP) : H332 - Harmful if inhaled H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

P201 - Obtain special instructions before use Precautionary statements (CLP)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P308+P313 - IF exposed or concerned: Get medical advice/attention

P281 - Use personal protective equipment as required

Labelling according to Directive 67/548/EEC or 1999/45/EC 2.2.2.

No labelling applicable

Other hazards

No relevant data available

Composition/information on ingredients 3.

3.1. **Substances**

Name	Product identifier		% (W/W) Concentration (range)	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No 1272/2008
	CAS No	EC no	(* 3 * /		[CLP/GHS]
SN/265-076-1 /Residues (petroleum), hydrocracked, - Vacuum residuum (DC feed)	64741-75-9	265-076-1	100	Carc.Cat.2; R45 Repr.Cat.3; R63 Xn; R20 Xn; R48/21 R66 N; R51/53	Acute Tox. 4 (Inhalation:gas), H332 Carc. 1B, H350 Repr. 2, H361 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
aromatic hydrocarbons			39,3		
polar hydrocarbons			28		
saturated hydrocarbons			19,3		
asphaltenes			13,4		

Full text of R-, H- and EUH-phrases: see section 16

Mixture

Not applicable

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First aid measures

Description of first aid measures

First-aid measures general

: Hydrogen sulphide (H₂S) can accumulate in the headspace of product storage tanks and reach potentially hazardous concentrations.

Contact with hot product may cause severe thermal burns.

Aspiration: not applicable due to the physical state of oxidized bitumen.

First-aid measures after inhalation

First-aid measures after skin contact

Inhalation of fumes or oil mists produced at high temperatures may cause irritation of the

respiratory tract

Remove casualty to a quiet and well ventilated place if safe to do so

If casualty is unconscious and:

Not breathing

Ensure that there is no obstruction to breathing and give artificial respiration by trained

personnel.

If necessary, give external cardiac massage and obtain medical advice.

Breathing

Place in the recovery position. Administer oxygen if necessary

Obtain medical assistance if breathing remains difficult.

If there is any suspicion of inhalation of H₂S (hydrogen sulphide).

Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures.

Remove casualty to fresh air as quickly as possible.

Immediately begin artificial respiration if breathing has ceased.

Provision of oxygen may help.

Obtain medical advice for further treatment.

For minor thermal burns, cool the burn

Hold the burned area under cold running water for at least five minutes, or until the pain

Body hypothermia must be avoided.

Do not put ice on the burn.

Remove non-sticking garments carefully.

DO NOT attempt to remove portions of clothing glued to burnt skin but cut round them

Seek medical attention in all cases of serious burns.

In the event of accidental skin contact with hot product, the injured part should be immediately

plunged under cold running water for at least 10 minutes.

No attempt must be made to remove the bitumen adherent to the skin at the worksite.

In the case of a circumferential burn with adhesion of the bitumen, the adhering material should be split to prevent a tourniquet effect as it cools.

Send patient for specialist care

If hot product is splashed into the eye, it should be cooled down immediately to dissipate heat, First-aid measures after eye contact

under cold running water.

Immediately obtain specialist medical assessment and treatment for the casualty.

In the event of eye contact with cold product, rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do so

Continue rinsing

If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.

First-aid measures after ingestion Do not induce vomiting.

Ask for medical advice

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

Symptoms/injuries after skin contact

: irritation of the respiratory tract due to excess fume, mists or vapour exposure.

: Contact with hot/molten product will cause severe burns. Symptoms/injuries after eye contact : minimal redness and irritation.

Contact with hot/molten product will cause severe burns.

: few or no symptoms expected. Symptoms/injuries after ingestion

If any, nausea and diarrhoea might occur.

Indication of any immediate medical attention and special treatment needed

Never use gasoline, kerosene or other solvents for washing of contaminated skin.

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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

 Foam (trained personnel only). Water fog (trained personnel only). Dry chemical powder. Carbon dioxide. Other inert gases (subject to regulations). Sand or earth.

Unsuitable extinguishing media

Do not use direct water jets on the burning product;. they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Reactivity

: Contact of hot product with water will result in a violent expansion as the water turns to steam. This may cause splashing of hot product, or damage to, or complete loss of the tank roof.

5.3. Advice for firefighters

Protection during firefighting

: In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Other information

Respiratory problems or nausea by excessive exposure to hot product fumes. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide. H₂S, SO_x (sulfur oxides) or sulfuric acid. unidentified organic and inorganic compounds.

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

: Small spillages: normal antistatic working clothes are usually adequate.

Large spillages: full body suit of chemically resistant and thermal resistant material should be used.

Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons.

gloves made of PVA are not water-resistant, and are not suitable for emergency use

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated

Work helmet with neck cloth

Antistatic non-skid safety shoes or boots

if necessary heat-resistant.

Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection:

a half or full-face respirator with filter(s) for organic vapours/ H_2 S, or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures

: Stop or contain leak at the source, if safe to do so

Avoid direct contact with released material

Stay upwind

In case of large spillages, alert occupants in downwind areas.

Keep non-involved personnel away from the area of spillage. Alert emergency personnel

Except in case of small spillages,

The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares

When the presence of dangerous amounts of H_2S around the spilled product is suspected or proved, additional or special actions may be warranted, including access restrictions, use of special protection equipment, procedures and personnel training.

Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation.

When inside buildings or confined spaces, ensure adequate ventilation

Let hot product cool down naturally

If necessary, cautiously use water fog to help the cooling.

Do not play direct jets of foam or water on the spilled molten product, as this may cause splattering

If required, notify relevant authorities according to all applicable regulations.

6.1.2. For emergency responders

Emergency procedures

: Leaks and spillages will consist of molten hot material with risk of severe burns.

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6.2. Environmental precautions

prevent product from entering sewers, rivers or other bodies of water.

solidified product may clog drains and sewers.

Collect free product with suitable mechanical means.

Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.

In case of spillage in the water,

the product will cool down rapidly and become solid.

The solid product is denser than water and will slowly sink to the bottom, and usually no intervention will be feasible.

If possible, contain the product

Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations.

6.3. Methods and material for containment and cleaning up

For containment

 recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions

For this reason, local experts should be consulted when necessary.

Local regulations may also prescribe or limit actions to be taken

Concentration of H_2S in tank headspaces may reach hazardous values, especially in case of prolonged storage.

This situation is especially relevant for those operations which involve direct exposure to the vapours in the tank.

Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations.

As H_2S has a density greater than ambient air, a possible exception may regard the build-up of dangerous concentrations in specific spots, like trenches, depressions or confined spaces

In all these circumstances, however, the correct actions should be assessed on a case-by-case basis.

6.4. Reference to other sections

No relevant data available

7. Handling and storage

7.1. Precautions for safe handling Precautions for safe handling

: Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. A specific assessment of inhalation risks from the presence of H₂S in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases must be made to help determine controls appropriate to local circumstances. Avoid contact with the hot product. Avoid contact of hot bitumen products with water. Risk of splashing of hot material. Ground/bond containers, tanks and transfer/receiving equipment. Do not breathe fumes from hot product. Use adequate personal protective equipment as required. For more information regarding protective equipment and operational conditions see Exposure scenarios. Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Keep away from food and beverages. Do not eat, drink or smoke when using this product. Wash the hands thoroughly after handling. Do not use solvents or other products with a defatting effect on the skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulphide (H₂S) and flammability. Use adequate personal protective equipment as required. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned. Hot product must never be filled into containers without first checking that the container is completely dry.

Storage conditions

 Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

Storage area

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Deposits (carbonaceous materials and iron sulphides) can develop on the internal walls and roofs of tanks in case of long term storage. These deposits may be pyrophoric and self-ignite in contact with the air. Store separately from oxidising agents.

Special rules on packaging

: If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product.

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Packaging materials

Self- heating leading to auto ignition at the surfaces of porous or fibrous materials impregnated with oils or bitumen, can occur at temperatures as low as 100°C. Oil and bitumen contamination of thermal insulation materials and the accumulation of oily rags or similar material near hot surfaces, should therefore be avoided, and lagging should be replaced where necessary by a non- absorbent type of insulation. Recommended materials: For containers, or container linings use materials specifically approved for use with this product. most synthetic materials are unsuitable for containers or container linings, due to low heat resistance.

7.3. Specific end use(s)

This substance is handled under Strictly Controlled Conditions in accordance with REACH regulation Article 17(3) for on-site isolated intermediates. in case the substance is transported to other sites for further processing, the substance should be handled at these sites under the Strictly Controlled Conditions as specified in REACH regulation Article 18(4). Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems is available at each manufacturing site. Written confirmation of application of Strictly Controlled Conditions has been received from every affected Distributor and Downstream Processor/User of the Registrant's intermediate.

8. Exposure controls/personal protection

8.1. Control parameters

Vacuum residuum (DC feed) (64741-75-9)		
EU	IOELV TWA (mg/m³)	0,002 mg/m³ benzo(a)pyrene
EU	IOELV STEL (mg/m³)	0,01 mg/m³ benzo(a)yrene

Vacuum residuum DC feed (64741-75-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation 4700 mg/m³ acute inhalation system	
Long-term - local effects, dermal	≥ 0,0658 mg/kg/8h
Long-term - systemic effects, inhalation	≥ 0,12 mg/m³ mg/m3/8h [aerosol]

DNEL : ≤ 0,015 mg/m³ mg/kg/24h general population

PNEC : 66,7 mg/m³ PNEC for predators oral mg/kg/food,

8.2. Exposure controls

Appropriate engineering controls

: Hydrogen sulphide may accumulate in the head space of storage tanks containing bitumen and can reach potentially hazardous concentrations. Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts. In absence of such indications, direct exposure to bitumen fumes can be assessed with a number of methods. Any comparison should be made only between data obtained with the same procedure. Dermal exposure can be assessed by the dermal patch method. Storage and handling temperatures should be kept as low as feasible to minimize fume production. Minimise exposure to fumes. Where hot product is handled in confined spaces, effective local ventilation must be provided. Do not enter empty storage tanks until measurements of available oxygen have been carried out.

Personal protective equipment

: Use of personal protective equipment must be consistent with good occupational hygiene practices. Protective goggles. Gas mask with filter type A. Gloves. Protective clothing.









Hand protection

Eye protection

Skin and body protection

Respiratory protection

- Heat resistant gloves with long cuffs, or gauntlets. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.
- : If splashing is likely, full head and face protection (protective shield and/or safety goggles) should be used
- : Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather). Coveralls should be changed at the end of the work shift and cleaned as necessary to avoid transfer of product to clothes or underwear. For loading/unloading operations: wear safety helmet with integrated full face visor and neck protection.

:Heated bitumen will give off fumes. Although these are unlikely to present a significant health hazard,. to avoid respiratory tract irritation inhalation exposure should be kept to a minimum,. by observing good work practice and ensuring good ventilation around work areas. Asphalt [bitumen] fume. Hydrogen sulphide. For this material there are occupational exposure limits set by: National Authorities of EU-member countries. National Authorities of other countries (non EU members). Competent Professional Bodies (i.e. American Conference of Industrial Hygienists, ACGIH). These values are recommended but not legally binding by themselves, unless adopted in a national legislation or labor contracts. recommended values for occupational exposure limits are not meant to replace any value set by official regulations or labour contracts. Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H_2S) or self-contained breathing apparatus (SCBA). If exposure levels cannot be determined or estimated with adequate confidence, or an oxygen deficiency is possible, only SCBA's should be used.

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Thermal hazard protection : Material handled at elevated temperature may cause thermal burns by contact with molten

Store finished products in closed containers (e.g., bulk tanks, drums, cans);. Store all VOC-Environmental exposure controls containing wastes in closed, secure containers (e.g., bulk tanks, intermediate bulk containers,

drums). Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary. Use vapour recovery units when necessary. Carefully handle the substance to minimise releases.

urinary biomarkers of exposure to PAHs may provide an indication of exposure to bitumen. Consumer exposure controls

Related limit values (air contaminants): none. Substance registered as Isolated intermediate under SCC). This substance is handled under Strictly Controlled Conditions in accordance with REACH regulation Article 17(3) for on-site isolated intermediates. In case the substance is transported to other sites for further processing, the substance should be handled at these sites under the Strictly Controlled Conditions as specified in REACH regulation Article 18(4). Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems is available at each manufacturing site. Written confirmation of application of Strictly Controlled Conditions has been received from every affected Distributor and Downstream Processor/User of the Registrant's intermediate.

Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Solid Physical state Black Colour

Odour characteristic odour.

30 - 128 °C Melting point : > 500 °C Boiling point

Flash point : > 180 (302 - 310) °C Vapour pressure << 0.1 kPa at 20 °C Relative vapour density at 20 °C 1009 - 1010 kg/m3 at 20°C

Self ignition temperature > 400 °C

Viscosity : 250 - 450 m²/s at 100°C

Other information

The above data are informative, accurate physical-chemical data of the product are specified on the product certificate.

Stability and reactivity

Contact of hot product with water will result in a violent expansion as the water turns to steam. This may cause splashing of hot product, or damage to, or complete loss of the tank roof.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard.

Conditions to avoid

They may be ignited by heat, sparks, static electricity or flames.

Incompatible materials

A mixture with nitrates or other strong oxidisers (e.g. chlorates, perchlorates, liquid oxygen) may create an explosive mass.

Hazardous decomposition products

No decomposition if stored normally.

Toxicological information

Information on toxicological effects 11.1.

: Harmful if inhaled. Acute toxicity

Vacuum residuum DC feed (64741-75-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 3600 mg/m³
ATE (gases)	4500,000 ppmV/4h

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation: Not classified Germ cell mutagenicity : Not classified

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Carcinogenicity : May cause cancer.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Ecological information

12.1. **Toxicity**

Vacuum residuum DC feed (64741-75-9)		
LC50 fishes 1	> 1000 mg/l QSAR	
EC50 Daphnia 1	> 1000 mg/l QSAR	
EC50 other aquatic organisms 1	> 1000 mg/l QSAR	
LC50 fish 2	> 1000 mg/l QSAR	
EC50 Daphnia 2	>= 1000 mg/I QSAR	

Persistence and degradability 12.2.

Vacuum residuum DC feed (64741-75-9)		34741-75-9)
	Persistence and degradability	Not easily bio-degradable (according to OECD-criteria).

Bioaccumulative potential 12.3.

No relevant data available

12.4. Mobility in soil

No relevant data available

Results of PBT and vPvB assessment 12.5

Vacuum residuum DC feed (64741-75-9)		
	Results of PBT	Anthracene is not present in this substance at greater than 0,1%. No other representative hydrocarbons structures
	occocomont	were found to most the DDT / vDvD criteria

12.6. Other adverse effects

No relevant data available

Disposal considerations

13.1. Waste treatment methods

: DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL Regional legislation (waste)

of 19 November 2008

on waste and repealing certain Directives. Disposal must be done according to official

regulations.

Waste treatment methods : Contain and dispose of waste according to local regulations. External recovery and recycling of

waste should comply with applicable local and/or national regulations. External treatment and disposal of waste should comply with applicable local and/or national regulations. Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible

and recommended.

Sewage disposal recommendations Do not empty into drains, dispose of this material and its container at hazardous or special waste

collection point. Do not empty into drains; dispose of this material and its container in a safe way.

Clear up spills immediately and dispose of waste safely.

(*) Hazardous waste according to Directive 91/689/EEC. European Waste Catalogue code(s) Additional information (Decision 2001/118/CE): The final user has the responsibility for the attribution of the most

suitable code, according to the actual use(s) of the material, contaminations or alterations.

14. Transport information

Waste disposal recommendations

14.1 Overland transport (ADR)

UN-No. (ADR) 3082

Residues (petroleum), hydrocracked (ELEVATED TEMPERATURE LIQUID, N.O.S.) Proper Shipping Name (ADR)

Class (ADR): 9 - Miscellaneous dangerous substances and articles Ш

Packing group (ADR) :

Danger labels (ADR) 9 - Miscelaneous dangerous substances and articles



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Hazard identification number (Kemler No.) : 90
Classification code (ADR) M6
Tunnel restriction code (ADR) : E

Orange plates :

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14.2 Overland transport (RID)

UN-No : 3082

Proper Shipping Name (RID) : Residues (petroleum), hydrocracked (ELEVATED TEMPERATURE LIQUID, N.O.S.)

Class (RID) : 9 - Miscellaneous dangerous substances and articles

Classification code (RID) : M6
Danger labels (RID) : 9



Packing group (RID) : III

Orange plates :

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14.3 Inland waterway transport (ADN)

UN-No : 3082

Proper Shipping Name (AND) : Residues (petroleum), hydrocracked (ELEVATED TEMPERATURE LIQUID, N.O.S.)

Class (ADN) : 9 - Miscellaneous dangerous substances and articles

Classification code (ADN) : M6
Packing group (ADN) : III
Danger labels (ADN) : 9



14.4 Transport by sea (IMDG)

UN-No : 3082

Proper Shipping Name (MOG) : Residues (petroleum), hydrocracked (ELEVATED TEMPERATURE LIQUID, N.O.S.)

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III



14.5 Air transport (ICAO-TI / IATA-DGR)

UN-No. (ICAO) : 3082

Class (ICAO) : 9 - Miscellaneous dangerous substances and articles

14.6. Special precautions for user

Other information : No supplementary information available.

15. Regulatory information

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

15.1.1. EU-Regulations

No relevant data available

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National regulations 15.1.2.

Regional legislation : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures(CLP), REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and

Restriction of Chemicals (REACH)

15.2. **Chemical safety assessment**

No relevant data available

Other information

SDS changed items : Re-registration of substances - change EC number, CAS number and the REACH registry No

Up date of trhe UN code

Data sources : CONCAWE registration dossier.

Training advice Before handling, storing or using the present substance for the first time, employees must be

informed.

Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Inhalation)	Acute toxicity (Inhalation) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity — repeated exposure Category 2
H332	Harmful if inhaled
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R20	Harmful by inhalation.
R45	May cause cancer.
R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R63	Possible risk of harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.
N	Dangerous for the environment
Xn	Harmful

Precautionary statements (CLP):

P201	Obtain special instructions before use
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P308+P313	IF exposed or concerned: Get medical advice/attention
P281	Use personal protective equipment as required

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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