

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 5/22/2015 Revision date: 9/24/2021 Version: 4.0

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

1.1. Product identifier Chemical type : Substance Trade name : Light cycle oil Trade name : Light cycle oil EC-No. : 265-060-4 CAS-No. : 64741-59-9 **REACH** registration No : 01-2119489734-23-0050 : 12010050 Product code **IUPAC** name : Distillates (petroleum), light catalytic cracked Synonyms : Light cycle oil from FCC unit

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

1.2.1. Relevant identified uses

0,	 Industrial use, Professional use Distribution of substance Intermediate Manufacture of substance Formulation & (re)packing of substances and mixtures Use as a fuel Use as an intermediate transported isolated intermediate
Function or use category	Intermediates, Fuels

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SLOVNAFT, a.s. a.s. Vlčie hrdlo 1 SK– 824 12 Bratislava Slovakia T +421-(0)2/4055-1111 - F +421-(0)2/5859-9759 info@slovnaft.sk - www.slovnaft.sk

1.4. Emergency telephone number

Emergency number

: Podnikový dispečing 1: ++0421(0)2/4055 3344

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX Cardiff	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB Newcastle	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Flammable liquids, Category 3	H226
Acute toxicity (inhal.), Category 4	H332
Skin corrosion/irritation, Category 2	H315
Carcinogenicity, Category 1B	H350
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

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

No additional information available

2.2. Label elements

Hazard pictograms (CLP)	
	GHS07 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation.

- H332 Harmful if inhaled.
- H350 May cause cancer.

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

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	H410 - Very toxic to aquatic life with long lasting effects. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use.
	. 1 201 - Obtain special instructions before use.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or
	doctor/physician. Do NOT induce vomiting.
	P308+P313 - IF exposed or concerned: Get medical advice/attention.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P321 - Specific treatment (see supplemental first aid instruction on this label).

2.3. Other hazards

Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII Endocrine disruptors: not yet evaluated

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name:CAS-No.:	UVCB SN / 265-060-4 / Light cycle oil 64741-59-9 265-060-4	
Name	Product identifier	%
SN / 265-060-4 / Light cycle oil	CAS-No.: 64741-59-9 EC-No.: 265-060-4 REACH-no: 01-2119489734- 23-0050	100
di-aromatic hydrocarbons	-	≤ 55
mono-aromatic hydrocarbons	-	≤ 30
tri-aromatic hydrocarbons, tri aromatic hydrocarbons and higher	-	≤5

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. 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	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

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First-aid measures after skin contact First-aid measures after eye contact	 Remove contaminated clothing, contaminated footwear and dispose of safely. Wash affected area with soap and water. Seek medical attention if skin irritation, swelling or redness develops and persists. When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop. For minor thermal burns, cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. 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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
First-aid measures after ingestion	 to do so. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. If hot product is splashed into the eye, it should be cooled down immediately to dissipate heat, under cold running water. Immediately obtain specialist medical assessment and treatment for the casualty. Do not induce vomiting. Ask for medical advice. Do not give anything by mouth to an unconscious person.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact	 irritation of the respiratory tract due to excess fume, mists or vapour exposure. dry skin. Irritation may arise in case of repeated or prolonged exposure. May cause burn in case of contact with product at high temperature.
Symptoms/effects after eye contact Symptoms/effects after ingestion	 Slight eye irritation. May cause burn in case of contact with product at high temperature. few or no symptoms expected. If any, nausea and diarrhoea might occur.

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

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

SECTION 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 su	ubstance or mixture
No additional information available	
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

Other information

operated in positive pressure mode.
Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide. H2S, SOx (sulfur oxides) or sulfuric acid. unidentified organic and inorganic compounds.

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SECTION 6: 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 antistatic material. if necessary heat resistant and insulated. 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. 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/H2S, 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). If required, notify relevant authorities according to all applicable regulations. When the presence of dangerous amounts of H2S 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. If necessary dike the product with dry earth, sand or similar non-combustible materials. Let molten material cool naturally. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use direct jets. When inside buildings or confined spaces, ensure adequate ventilation.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water, or underground spaces (tunnels, cellars, etc.). Absorb spilled product with suitable non-combustible materials. Collect free product with suitable mechanical means. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. Product less dense than water: In case of small spillages in closed waters, contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Product which is denser than water will sink to the bottom, and usually no intervention will be feasible. If possible, collect the product and contaminated materials with mechanical means, and store/dispose of according to relevant regulations. In special situations (to be assessed on case-by case basis, according to expert judgement and local conditions), excavations of trenches on the bottom to collect the product, or burying the product with sand may be a feasible option.

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 H2S 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 H2S 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.

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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Obtain special instructions before use. Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. Keep away from heat/sparks/open flames/hot surfaces. Do not eat, drink or smoke when using this product. 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 release to the environment. Take precautionary measures against static electricity. Ground/bond containers, tanks and transfer/receiving equipment. The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Avoid contact with skin. Precautions should be taken to avoid skin burns when handling hot product. Use adequate personal protective equipment as required. For more information regarding protective equipment and operational conditions see Exposure scenarios. Do not breathe vapours. 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. Wash the hands thoroughly after handling. Change contaminated clothes at the end of working shift.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Technical measures Storage conditions	 Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulphide (H2S) and flammability. Empty containers may contain flammable product residues. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned. 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
Storage area	 regulations. Store in a well-ventilated place. Use and store only outdoors or in a well-ventilated 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. 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. Keep containers tightly closed and properly labelled.
Packaging materials	 Recommended materials: For containers, or container linings use materials specifically approved for use with this product. some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Light cycle oil (64741-59-9)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	4700 mg/m³ 15 min(for lethality) [aerosol]	
Long-term - systemic effects, dermal	0.065 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.12 mg/m³ /8h [aerosol]	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.015 mg/kg bodyweight/day	
PNEC (Oral)		
PNEC oral (secondary poisoning)	66.767 kg/kg food Hazard for predators	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Minimise exposure to fumes. Storage and handling temperatures should be kept as low as feasible to minimize fume production. Do not enter empty storage tanks until measurements of available oxygen have been carried out. Where hot product is handled in confined spaces, effective local ventilation must be provided.

8.2.2. Personal protection equipment

Personal protective equipment:

Face shield. Full protective flameproof clothing. Insulated gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

If splashing is likely, full head and face protection (protective shield and/or safety goggles) should be used. If contact is likely, a protection (protective shield and/or safety goggles) should be used.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable coveralls to prevent exposure to the skin. Coveralls should be changed at the end of the work shift and cleaned as necessary to avoid transfer of product to clothes or underwear.

Hand protection:

Heat resistant gloves with long cuffs, or gauntlets. Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

8.2.2.3. Respiratory protection

Respiratory protection:

to avoid respiratory tract irritation inhalation exposure should be kept to a minimum. If exposure levels cannot be determined or estimated with adequate confidence, or an oxygen deficiency is possible, only SCBA's should be used. If necessary, approved respiratory protection equipment shall be used when handling hot product in confined spaces: enclosed face mask with cartridge/filter type "A" or self-contained breathing apparatus (SCBA). Change filter cartridge on respirator daily

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8.2.2.4. Thermal hazards

Thermal hazard protection:

None in normal conditions.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Store finished products in closed containers (e.g, bulk tanks, drums, cans). Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary. Use vapour recovery units when necessary. Carefully handle the substance to minimise releases.

Consumer exposure controls:

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Brown-yellow.
Odour	: aromatic odour.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: ≤ -20 °C
Boiling point	: ≤ 380 °C
Flash point	: > 80 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: ≤ 975 kg/m³ at 15°C
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: 3.9 – 6
Viscosity, kinematic	: ≤ 4 mm²/s at 40°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This substance will float and can be reignited on surface water.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

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10.4. Conditions to avoid

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

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Combustion (incomplete) will likely generate oxides of carbon, sulphur and nitrogen, as well as additional undetermined organic compounds of the same elements. No decomposition if stored normally.

SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	:	Not classified Not classified Harmful if inhaled.
Light cycle oil (64741-59-9)		
LD50 oral rat		> 2000 mg/kg
LD50 dermal rabbit		> 2000 mg/kg
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	May cause cancer.
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	May be fatal if swallowed and enters airways.
Light cycle oil (64741-59-9)		
Viscosity, kinematic		≤ 4 mm²/s at 40°C

SECTION 12: Ecological information	
12.1. Toxicity	
(acute)	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Light cycle oil (64741-59-9)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	< 1 mg/l
EC50 - Other aquatic organisms [1]	80 mg/l Algae, 72h
12.2. Persistence and degradability	
No additional information available	

12.3. Bioaccumulative potential Light cycle oil (64741-59-9) Partition coefficient n-octanol/water (Log Kow) 3.9 – 6

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12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

13.1. Waste treatment methods	
Regional legislation (waste)	 DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL 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.
Waste disposal recommendations	 Clear up spills immediately and dispose of waste safely. Dispose of waste or used sacks/containers according to local regulations.
Additional information	: (*) Hazardous waste according to Directive 91/689/EEC. European Waste Catalogue code(s) (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.
Ecology - waste materials	: Hazardous waste. Avoid any discharge of the product into waste water. Disposal in high- temperature incinerator (> 1200 °C).
EWC (EURAL) code	: 05 01 17 - bitumen

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

ADR	RID	ADN	IMDG	ΙΑΤΑ
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shippi	ing name		-	-
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIGHT CYCLE OIL)	Environmentally hazardous substance, liquid, n.o.s. (LIGHT CYCLE OIL)			
14.3. Transport hazard	l class(es)		1	1
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III

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ADR	RID	ADN	IMDG	ΙΑΤΑ
14.5. Environmental h	azards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
14.6. Special precaution	ons for user			
90	90	9+N1+CMR+F	EmS-No. (Fire) F-A	
			EmS-No. (Spillage) S-F	
Special provisions (ADR):				
274, 335, 601, 375	Special provisions (RID):			
	274, 335, 375, 601			
M6	M6	M6		
	1	I	1	I
	No si	upplementary information ava	ilable	

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Not listed on REACH Annex XVII

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

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)

Germany

Connany	
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 27)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: SN / 265-060-4 / Light cycle oil is listed
SZW-lijst van mutagene stoffen	: SN / 265-060-4 / Light cycle oil is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: 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
Switzerland	
Storage class (LK)	: LK 3 - Flammable liquids

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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 H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 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	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H332	Harmful if inhaled.	
H350	May cause cancer.	
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.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

SDS EU (REACH Annex II) MOL

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.