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

1.1 Product identifier

Trade name	:	Helix Ultra Racing 10W-60
Product code	:	901L3254

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

Use of the Substance/Mixture	:	Engine oil.
Uses advised against		This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	 Shell UK Oil Products Limited Shell Centre London SE1 7NA United Kingdom
Telephone Telefax Email Contact for Safety Data Sheet	 : (+44) 08007318888 : If you have any enquiries about the content of this SDS please email lubricantSDS@shell.com

1.4 Emergency telephone number

: +44-(0) 151-350-4595

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	No Hazard Symbol required	
Signal word	:	No signal word	
Hazard statements	:		PHYSICAL HAZARDS: Not classified as a physical hazard

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		according to CLP cri HEALTH HAZARDS Not classified as a h criteria. ENVIRONMENTAL Not classified as env according to CLP cri	: ealth hazard under CLP HAZARDS: <i>v</i> ironmental hazard
Precautionary statements	Response: Storage:	No precautionary ph	rases.
		No precautionary ph	rases.
		No precautionary ph	rases.
	Disposal:		rases.

2.3 Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities.

Not classified as flammable but will burn.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Synthetic base oil and additives. Highly refined mineral oil. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346. The highly refined mineral oil is only present as additive diluent.

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION	[%]
	Registration	(EC) No	
	number	1272/2008)	
Alkaryl amine	36878-20-3	Aquatic Chronic4;	1 - 3
	253-249-4 / 01-	H413	
	2119488911-28		

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures			
General advice	: Not expected to be a health hazard when used under normal conditions.		
Protection of first-aiders	: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.		
If inhaled	: No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.		
In case of skin contact	 Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. 		
In case of eye contact	: Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.		
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.		
4.2 Most important symptoms and effects, both acute and delayed			
Symptoms	 Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. 		
4.3 Indication of any immediate medical attention and special treatment needed			
Treatment	: Notes to doctor/physician: Treat symptomatically.		

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.	
5.2 Special hazards arising from the substance or mixture			
Specific hazards during firefighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.	

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5.3 Advice for firefighters		
Special protective equipment for firefighters	: Proper protective equipment includin gloves are to be worn; chemical resis large contact with spilled product is e Breathing Apparatus must be worn w a confined space. Select fire fighter's relevant Standards (e.g. Europe: EN	tant suit is indicated if xpected. Self-Contained hen approaching a fire in clothing approved to
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: 6.1.1 For non emergency personnel:
	Avoid contact with skin and eyes.
	6.1.2 For emergency responders:
	Avoid contact with skin and eyes.

6.2 Environmental precautions

Environmental precautions : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: Slippery when spilt. Avoid accidents, clean up immediately.
	Prevent from spreading by making a barrier with sand, earth
	or other containment material.
	Reclaim liquid directly or in an absorbent.
	Soak up residue with an absorbent such as clay, sand or other
	suitable material and dispose of properly.

6.4 Reference to other sections

For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet., For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

General Precautions : Use local exhaust ventilation if there is risk of inhalation of

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	vapours, mists or aerosols. Use the information in this data sheet assessment of local circumstances to appropriate controls for safe handling, this material.	as input to a risk help determine
7.1 Precautions for safe handlin	g	
Advice on safe handling	: Avoid prolonged or repeated contact v Avoid inhaling vapour and/or mists. When handling product in drums, safe worn and proper handling equipments Properly dispose of any contaminated materials in order to prevent fires.	ety footwear should be should be used.
Product Transfer	: This material has the potential to be a Proper grounding and bonding proced during all bulk transfer operations.	
7.2 Conditions for safe storage,	including any incompatibilities	
Other data	: Keep container tightly closed and in a place. Use properly labeled and closa	
	Store at ambient temperature.	
	Refer to section 15 for any additional s covering the packaging and storage o	
	The storage of this product may be su Pollution (Oil Storage) (England) Regu guidance may be obtained from the lo agency office.	ulations. Further
Packaging material	: Suitable material: For containers or co steel or high density polyethylene. Unsuitable material: PVC.	ontainer linings, use mild
Container Advice	: Polyethylene containers should not be temperatures because of possible risk	
7.3 Specific end use(s)		
Specific use(s)	: Not applicable	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Oil mist, mineral		TWA	5 mg/m3	US. ACGIH Threshold Limit Values

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

8.2 Exposure controls

Engineering measures The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Personal protective equipment

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	made in consideration of the PPE directiv European Committee for Standardisation (
Personal protective equipme PPE suppliers.	ent (PPE) should meet recommended nati	onal standards. Check with
Eye protection	: If material is handled such that it cc protective eyewear is recommende Approved to EU Standard EN166.	
Hand protection		
Remarks	: Where hand contact with the produ gloves approved to relevant standa US: F739) made from the following suitable chemical protection. PVC, gloves Suitability and durability of a usage, e.g. frequency and duration resistance of glove material, dexter from glove suppliers. Contaminated replaced. Personal hygiene is a key care. Gloves must only be worn on gloves, hands should be washed an Application of a non-perfumed mois	rds (e.g. Europe: EN374, materials may provide neoprene or nitrile rubber glove is dependent on of contact, chemical ity. Always seek advice I gloves should be v element of effective hand clean hands. After using nd dried thoroughly.
	For continuous contact we recomm breakthrough time of more than 240 for > 480 minutes where suitable gl short-term/splash protection we recorrecognize that suitable gloves offer may not be available and in this cast time maybe acceptable so long as a and replacement regimes are follow a good predictor of glove resistance dependent on the exact composition Glove thickness should be typically depending on the glove make and re	D minutes with preference oves can be identified. For commend the same, but ing this level of protection se a lower breakthrough appropriate maintenance ved. Glove thickness is not to a chemical as it is n of the glove material. greater than 0.35 mm
Skin and body protection	 Skin protection is not ordinarily requestion work clothes. It is good practice to wear chemical 	-
Respiratory protection	 No respiratory protection is ordinari conditions of use. In accordance with good industrial I precautions should be taken to avo If engineering controls do not maint concentrations to a level which is a health, select respiratory protection specific conditions of use and meet 	nygiene practices, id breathing of material. ain airborne dequate to protect worker equipment suitable for the

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	Check with respiratory protective eq Where air-filtering respirators are su appropriate combination of mask an Select a filter suitable for combined and vapours [Type A/Type P boiling meeting EN14387 and EN143.	itable, select an id filter. particulate/organic gases
Thermal hazards	: Not applicable	
Hygiene measures	: Exposure to this product should be reasonably practicable. Reference s Health and Safety Executive's public Essentials".	should be made to the
Environmental exposure of	controls	
General advice	: Take appropriate measures to fulfill relevant environmental protection le contamination of the environment by Chapter 6. If necessary, prevent un being discharged to waste water. W treated in a municipal or industrial w before discharge to surface water. Local guidelines on emission limits f must be observed for the discharge vapour.	gislation. Avoid y following advice given in idissolved material from aste water should be vaste water treatment plant for volatile substances

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-42 °CMethod: ASTM D97
Initial boiling point and boiling range	:	> 280 °Cestimated value(s)
Flash point	:	250 °C Method: ASTM D92
Evaporation rate	:	Data not available

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Flammability (solid, gas)	: Data not available	
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.8458 (15 °C)	
Density	: 845.8 kg/m3 (15.0 °C) Method: ASTM D4052	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on	similar products)
Auto-ignition temperature	: > 320 °C	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 160.1 mm2/s (40.0 °C) Method: ASTM D445	
	23.1 mm2/s (100 °C) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
9.2 Other information		
Conductivity Decomposition temperature	This material is not expected to beData not available	e a static accumulator.

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SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

Stable.

No hazardous reaction is expected when handled and stored according to provisions

10.3 Possibility of hazardous reactions

Hazardous reactions	: Reacts with strong oxidising agents.
10.4 Conditions to avoid	
Conditions to avoid	: Extremes of temperature and direct sunlight.
10.5 Incompatible materials	
Materials to avoid	: Strong oxidising agents.
10.6 Hazardous decomposition pro	oducts
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal storage.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
Information on likely routes of exposure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute toxicity		
Product:		
Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Expected to be of low toxicity:
Acute inhalation toxicity	:	Remarks: Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg
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Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: For respiratory and skin sensitisation:, Not expected to be a sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

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STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

Remarks: Classifications by other authorities under varying regulatory frameworks may exist.

Summary on evaluation of the CMR properties

Germ cell mutagenicity- Assessment	This product does not meet the criteria for classificat categories 1A/1B.	ion in
Carcinogenicity - Assessment	This product does not meet the criteria for classificat categories 1A/1B.	ion in
Reproductive toxicity - Assessment	This product does not meet the criteria for classificat categories 1A/1B.	ion in

SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment	 Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

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<u>Product:</u>		individual component(s).(LL/EL/IL50 expl nominal amount of product required to pr extract).	
Toxicity to fish (Acute toxicity)	:	Remarks: Expected to be practically non LL/EL/IL50 > 100 mg/l	toxic:
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be practically non LL/EL/IL50 > 100 mg/l	toxic:
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be practically non LL/EL/IL50 > 100 mg/l	toxic:
Toxicity to fish (Chronic toxicity)	:	Remarks: Data not available	
Toxicity to crustacean (Chronic toxicity)	:	Remarks: Data not available	
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available	

12.2 Persistence and degradability

Product:	
constituents are exp	to be not readily biodegradable., Major bected to be inherently biodegradable, but ts that may persist in the environment.
12.3 Bioaccumulative potential	
Product:	
Bioaccumulation : Remarks: Contains bioaccumulate.	components with the potential to
Partition coefficient: n- : Pow: > 6Remarks: (octanol/water	based on information on similar products)
12.4 Mobility in soil	
Product:	
	der most environmental conditions., If it sorb to soil particles and will not be water.
12.5 Results of PBT and vPvB assessment	
Product:	
	ot contain any REACH registered assessed to be a PBT or a vPvB.
12.6 Other adverse effects	

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Product:		
Additional ecological information	 Product is a mixture of non-volatile expected to be released to air in an Not expected to have ozone depleti photochemical ozone creation poter potential. Poorly soluble mixture., May cause organisms. 	y significant quantities., on potential, ntial or global warming

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Waste catalogue	: EU Waste Disposal Code (EWC):
Waste Code	: 13 02 06*
Remarks	: Classification of waste is always the responsibility of the end user.

SECTION 14: Transport information

14.1 UN number	
ADR RID IMDG IATA	 Not regulated as a dangerous good
14.2 Proper shipping name ADR RID	 Not regulated as a dangerous good Not regulated as a dangerous good

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IMDG	: Not regulated as a dangerous good	
ΙΑΤΑ	: Not regulated as a dangerous good	
14.3 Transport hazard class		
ADR	: Not regulated as a dangerous good	
RID	: Not regulated as a dangerous good	
IMDG	: Not regulated as a dangerous good	
ΙΑΤΑ	: Not regulated as a dangerous good	
14.4 Packing group		
ADR	: Not regulated as a dangerous good	
RID	: Not regulated as a dangerous good	
IMDG	: Not regulated as a dangerous good	
ΙΑΤΑ	: Not regulated as a dangerous good	
14.5 Environmental hazards		
ADR	: Not regulated as a dangerous good	
RID	: Not regulated as a dangerous good	
IMDG	: Not regulated as a dangerous good	
14.6 Special precautions for us	ser	
Remarks	 Special Precautions: Refer to Chapter 7 for special precautions which a user need needs to comply with in connection with 	eds to be aware of or
14.7 Transport in bulk according	ng to Annex II of MARPOL 73/78 and the IBC	C Code
Pollution category	: Not applicable	
Ship type	: Not applicable	
Product name	: Not applicable	
Special precautions	: Not applicable	
Additional Information	: MARPOL Annex 1 rules apply for bulk s	hipments by sea.

SECTION 15: Regulatory information

15.1 Safety, health and environm	nental regulations/legislatio	on specific for the substance or mixture
REACH - List of substances s (Annex XIV)	subject to authorisation	: Product is not subject to Authorisation under REACH.
Volatile organic compounds	: 0%	
Other regulations	Safety at Work etc. Act Pollution Prevention and 1995. Factories Act 196 and Use of Transportab Regulations 2011. Chen Packaging for Supply) F	on Act 1990 (as amended). Health and 1974. Consumers Protection Act 1987. d Control Act 1999. Environment Act 1. The Carriage of Dangerous Goods le Pressure Equipment (Amendment) nicals (Hazard Information and Regulations 2009. Control of to Health Regulations 2002 (as
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	amended). Merchant Shipping (Dar	ngerous Goods and Marine	
	Pollutants) Regulations 1997. Reporting of Injuries, Diseases		
	and Dangerous Occurrences Regul		
	Personal Protective Equipment Reg	ulations 2002. Personal	
	Protective Equipment at Work Regu	Ilations 1992. Hazardous	
	Waste (England and Wales) Regula	ations 2005(as amended).	
	Control of Major Accident Hazards I	Regulations 1999 (as	

Control of Major Accident Hazards Regulations 1999 (as amended). Renewable Transport Fuel Obligations Order 2007 (as amended). Energy Act 2011. Environmental Permitting (England and Wales) Regulations 2010 (as amended). Waste (England and Wales) Regulations 2011 (as amended). Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011.

The components of this product are reported in the following inventories:

EINECS/ELINCS/EC	:	All components listed or polymer exempt.
TSCA	:	All components listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Full text of H-Statements

H413 May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Aquatic Chronic Abbreviations and Acro	aquatic toxicity The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
	ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung

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	DMEL = Derived Minimal Effect Lev	vel
	DNEL = Derived No Effect Level	vei
	DSL = Canada Domestic Substanc	e List
	EC = European Commission	
	EC50 = Effective Concentration fifty	v
	ECETOC = European Center on Ec	
	Toxicology Of Chemicals	
	ECHA = European Chemicals Ager	ncy
	EINECS = The European Inventory	of Existing Commercial
	Chemical Substances	
	EL50 = Effective Loading fifty	
	ENCS = Japanese Existing and Ne	w Chemical Substances
	Inventory	
	EWC = European Waste Code	
	GHS = Globally Harmonised System	m of Classification and
	Labelling of Chemicals	
	IARC = International Agency for Re	
	IATA = International Air Transport A	
	IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty	/
	IMDG = International Maritime Dan	aerous Goods
	INV = Chinese Chemicals Inventory	
	IP346 = Institute of Petroleum test	
	determination of polycyclic aromatic	
	KECI = Korea Existing Chemicals	
	LC50 = Lethal Concentration fifty	
	LD50 = Lethal Dose fifty per cent.	
	LL/EL/IL = Lethal Loading/Effective	Loading/Inhibitory loading
	LL50 = Lethal Loading fifty	
	MARPOL = International Convention	on for the Prevention of
	Pollution From Ships	
	NOEC/NOEL = No Observed Effec	t Concentration / No
	Observed Effect Level	
	OE_HPV = Occupational Exposure	
	PBT = Persistent, Bioaccumulative	
	PICCS = Philippine Inventory of Ch Substances	iemicals and Chemical
	PNEC = Predicted No Effect Conce	atration
	REACH = Registration Evaluation A	
	Chemicals	
	RID = Regulations Relating to Inter	national Carriage of
	Dangerous Goods by Rail	
	SKIN_DES = Skin Designation	
	STEL = Short term exposure limit	
	TRA = Targeted Risk Assessment	
	TSCA = US Toxic Substances Con	trol Act
	TWA = Time-Weighted Average	
	vPvB = very Persistent and very Bio	oaccumulative

Further information

Other information	:	No Exposure Scenario annex is attached to this safety data
		sheet. It is a non-classified mixture containing hazardous

	g	
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	substances as detailed in Section 3 Exposure Scenarios for the hazardo have been integrated into the core	ous substances contained
	A vertical bar () in the left margin ir from the previous version.	ndicates an amendment

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.