rsion 1.1	Revision Date 13.02.2025	Print Date 14.02.202
CTION 1. PRODUCT AND C	OMPANY IDENTIFICATION	
Product name	: Shell PANOLIN S4 Gear RS 80W	90
Product code	: 007A0417	
Manufacturer or supplier		
Supplier	 Viva Energy Australia Pty Ltd (Formerly: The Shell Company of (ABN 46 004 610 459) 720 Bourke Street Docklands Victoria 3008 Australia 	Australia)
Telephone Telefax	: +61 (0)3 8823 4444 : +61 (0)3 8823 4800	
Emergency telephone number	: 1800 651 818 (Australia). ; POISONS INFORMATION CEN	TRE: 13 11 26 (Australia).
Recommended use of the	e chemical and restrictions on use	
Recommended use	: Gear oil	
Restrictions on use	: This product must not be used in a listed in Section 1 without first see supplier.	

GHS Classification

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements

Hazard pictograms	: No Hazard Symbol required	
Signal word	: No signal word	
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria. 	

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025
Precautionary statements	:	
	Prevention:	
	No precautionary phrases.	
	Response:	
	No precautionary phrases.	
	Storage:	
	No precautionary phrases.	
	Disposal:	
	No precautionary phrases.	

Other hazards which do not result in classification

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

Substance / Mixture : Mixture

3.2 Mixtures

Chemical nature

: Blend of synthetic esters and additives.

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Asp. Tox.1; H304	1 - 5
Dialkylpolysulphide	68937-96-2	Skin Irrit.3; H316 Skin Sens.1B; H317 Aquatic Chronic3; H412	1 - 4.9
Amine phosphate	91745-46-9	Flam. Liq.4; H227 Acute Tox.4; H302 Skin Sens.1; H317 Aquatic Chronic2; H411 Eye Irrit.2; H319	1 - 1.99

Version 1.1Revision Date 13.02.2025Print Date 14.02.2025For explanation of abbreviations see section 16.

SECTION 4. FIRST AID MEASURES

If inhaled	No treatment necessary under normal conditions of us If symptoms persist, obtain medical advice.	se.
In case of skin contact	Remove contaminated clothing. Flush exposed area 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. Remove contact lenses, if present and easy to do. Co rinsing. If persistent irritation occurs, obtain medical attention.	
If swallowed	In general no treatment is necessary unless large qua are swallowed, however, get medical advice.	antities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may include for of black pustules and spots on the skin of exposed and Ingestion may result in nausea, vomiting and/or diarrh	eas.
Protection of first-aiders	When administering first aid, ensure that you are wea appropriate personal protective equipment according incident, injury and surroundings.	
Notes to physician	Treat symptomatically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	: Do not use water in a jet.
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.
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Version 1.1 Special protective equipment for firefighters	Revision Date 13.02.2025Print Date 14.02.20: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Containe Breathing Apparatus must be worn when approaching a fire a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).	ed
Hazchem Code	: NONE	
SECTION 6. ACCIDENTAL RELEA	SE MEASURES	
Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes.	
Environmental precautions	: Use appropriate containment to prevent uncontrolled release Prevent from spreading or entering drains, ditches or rivers using sand, earth, or other appropriate barriers.	
	Local authorities should be advised if significant spillages cannot be contained.	
Methods and materials for containment and 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 oth suitable material and dispose of properly. 	ı
Additional advice	: For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 this Safety Data Sheet.	

SECTION 7. HANDLING AND STORAGE

General Precautions	 Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Advice on safe handling	 Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.
Avoidance of contact	: Strong oxidising agents.

Version 1.1 Storage	Revision Date 13.02.2025	Print Date 14.02.2025
Other data	: Keep container tightly closed and in place. Use properly labeled and closable c	
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not temperatures because of possible ri	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	AU OEL
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	Australia. Workplace Exposure Standards for Airborne Contaminant s.
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

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

Shell PANOLIN S4 Gear RS 80W90

Revision Date 13.02.2025	Print Date 14.02.2025
utschen Gesetzlichen Unfallversicherung dex.jsp	(IFA) , Germany
vary depending upon potential exp controls based on a risk assessme Appropriate measures include: Adequate ventilation to control airb	oosure conditions. Select ent of local circumstances. oorne concentrations.
General Information Define procedures for safe handlir	-
measures relevant to normal activi product.	ties associated with this
equipment used to control exposu equipment, local exhaust ventilation Drain down system prior to equipm	re, e.g. personal protective on.
Retain drain downs in sealed stora subsequent recycle.	
washing hands after handling the i drinking, and/or smoking. Routine protective equipment to remove co	material and before eating, ly wash work clothing and ontaminants. Discard
	 e (HSE), UK: Methods for the Determination utschen Gesetzlichen Unfallversicherung dex.jsp rche et de Securité, (INRS), France http:// : The level of protection and types of vary depending upon potential exp controls based on a risk assessme Appropriate measures include: Adequate ventilation to control airth Where material is heated, sprayed greater potential for airborne concernors. Educate and train workers in the h measures relevant to normal activity product. Ensure appropriate selection, testi equipment used to control exposure equipment, local exhaust ventilation Drain down system prior to equipm maintenance. Retain drain downs in sealed stora subsequent recycle. Always observe good personal hys washing hands after handling the redrinking, and/or smoking. Routine protective equipment to remove co contaminated clothing and footwear

Personal protective equipment

Protective measures

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Respiratory protection	 No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an
------------------------	--

Shell PANOLIN S4 Gear RS 80W90

sion 1.1	Revision Date 13.02.2025 Print Date 14.02.20
	appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65
	(149°F)].
Hand protection	
Remarks	: Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374 US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubbe gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hal care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended
	For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. F short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protectio may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is r a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.
Eye protection	: If material is handled such that it could be splashed into eye protective eyewear is recommended.
Skin and body protection	 Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.
Thermal hazards	: Not applicable
Environmental exposure	controls
General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment pla before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containin

must be observed for the discharge of exhaust air containing

Shell PANOLIN S4 Gear RS 80W90

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025
	vapour.	
SECTION 9. PHYSICAL AND CHE	MICAL PROPERTIES	
Appearance	: liquid	
Colour	: Pale yellow	
Odour	: Data not available	
Odour Threshold	: Data not available	
рН	: Not applicable	
Pour point	: -33 °C / -27 °F Method: ASTM D97	
Melting / freezing point	Data not available	
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value((s)
Flash point	: 173 °C / 343 °F Method: ASTM D92 (COC)	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Not applicable	
Flammability (liquids)	: Not classified as flammable but wi	ill burn.
Upper explosion limit	: Typical 10 %(V)	
Lower explosion limit	: Typical 1 %(V)	
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: >5	
Density	: 920 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: log Pow: > 6 (based on information on similar p	products)
Auto-ignition temperature	: > 320 °C / 608 °F	

Shell PANOLIN S4 Gear RS 80W90

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 92.8 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	15.6 mm2/s (100 °C / 212 °F) Method: ASTM D445	
	3530 mm2/s (-20 °C / -4 °F) Method: ASTM D445	
Particle characteristics Particle size	: Data not available	
Explosive properties	: Classification Code: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to be a st	atic accumulator.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.	1
Chemical stability	: Stable.	
Possibility of hazardous reactions	: Reacts with strong oxidising agents.	
Conditions to avoid	: Extremes of temperature and direct sunlight.	
Incompatible materials	: Strong oxidising agents.	
Hazardous decomposition products	: No decomposition if stored and applied as directed.	

SECTION 11. TOXICOLOGICAL INFORMATION

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	

Shell PANOLIN S4 Gear RS 80W90

Version 1.1	Revision Date 13.02.2025 whole, rather than for individual comp	Print Date 14.02.2025 onent(s).
Exposure routes	: Skin and eye contact are the primary although exposure may occur followin	
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 rat: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classifica	ation criteria are not met.
Acute inhalation toxicity	: Remarks: Based on available data, the are not met.	e classification criteria
Acute dermal toxicity	: LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classifica	ation criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

Components:

Amine phosphate:

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

Components:

Dialkylpolysulphide:

Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Version 1.1

Revision Date 13.02.2025

Print Date 14.02.2025

Amine phosphate: Remarks: Experimental data has shown that the concentration of potentially sensitising components present in this product does not induce skin sensitisation. May cause an allergic skin reaction in sensitive individuals.

Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

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

Reproductive toxicity

Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

11/16

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025
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: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	: Ecotoxicological data have not been determined specifically for this product. Information given is based on product data, 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 individual component(s).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/I Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: LL/EL/IL50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Chronic toxicity)	: Remarks: Based on available data, the classification criteria are not met.
Toxicity to microorganisms (Acute toxicity)	: Remarks: Based on available data, the classification criteria are not met.

Persistence and degradability

Product:

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025	
Biodegradability	: Remarks: Readily biodegradable.		
Bioaccumulative potential			
Product:			
Bioaccumulation	: Remarks: Contains components with bioaccumulate.	: Remarks: Contains components with the potential to bioaccumulate.	
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on inference)	: log Pow: > 6Remarks: (based on information on similar products)	
Mobility in soil			
Product:			
Mobility			
Other adverse effects			
No data available Product:			
Additional ecological information	 Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use. Poorly soluble mixture., Causes physical fouling of aquatic organisms. 		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Shell PANOLIN S4 Gear RS 80W90

Version 1.1	Revision Date 13.02.2025	Print Date 14.02.2025
	MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.	
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		
Remarks	: Disposal should be in accordance national, and local laws and regula	

SECTION 14. TRANSPORT INFORMATION

National Regulations

ADG Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons : No poison schedule number allocated Standard) Instrument

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Version 1.1 Revision Date 13.02.2025 Print Date 14.02.2025 Product classified as per Work Health Safety Regulations – Implementation of the Globally

Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2020 based on Globally Harmonized Classification version 7.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011).

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code). Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Other international regulations

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

TSCA	:	All components listed.
AIIC	:	Listed Introduction

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H227	Combustible liquid.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H316	Causes mild skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Full text of other abbreviations		

Acute Tox.	Acute toxicity
Aquatic Chronic	Long-term (chronic) aquatic hazard
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

Abbreviations and Acronyms

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -

Shell PANOLIN S4 Gear RS 80W90

Revision Date 13.02.2025 Print Date 14.02.2025 Version 1.1 International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date of preparation or review : 13.02.2025

Further information

Training advice	:	Provide adequate information, instruction and training for operators.
Other information	:	A vertical bar () in the left margin indicates an amendment from the previous version.
Sources of key data used to compile the Safety Data Sheet	:	The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AU / EN