Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2024	Print Date 01.01.2025
1. PRODUCT AND COMPANY IDE	ITIFICATION	
Product name	Shell Naturelle S2 Hydraulic Fluid	1 46
Product code	00115605	
Manufacturer or supplier's d		
Supplier	Shell Singapore Pte. Ltd. (196000089G) The Metropolis Tower 1, 9 North Buona Vista Drive, #07-0 Singapore 138588 Singapore	1
Telephone Telefax	: (+65) 62632975 : (+65) 62632049	
Emergency telephone number	: +65 6263 2975	
Contact for Safety Data Sheet	: If you have any enquiries about please email lubricantSDS@she	
Recommended use of the ch	mical and restrictions on use	
Recommended use	Hydraulic fluid.	
Restrictions on use	This product must not be used in listed in Section 1 without first sec supplier.	
2. HAZARDS IDENTIFICATION		

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. 	

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2024	Print Date 01.01.2025
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.High-pressure injection under the skin may cause serious damage including local necrosis.Not classified as flammable but will burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

3.2 Mixtures

Chemical nature : Blend of polyol ester and additives

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Alkyl dithiophosphate	68413-48-9	Skin Sens.1B; H317 Aquatic Chronic4; H413	0.1 - 0.49
Amine phosphate	68603-55-4	Skin Irrit.2; H315 Aquatic Acute1; H400 Aquatic Chronic3; H412	0.1 - 0.24

For explanation of abbreviations see section 16.

Shell Naturelle S2 Hydraulic Fluid 46

rsion 1.5	Revision Date 31.12.2024	Print Date 01.01.2025
FIRST-AID MEASURES		
If inhaled	: No treatment necessary under normal If symptoms persist, obtain medical adv	
In case of skin contact	: Remove contaminated clothing. Flush e water and follow by washing with soap If persistent irritation occurs, obtain me	if available.
	When using high pressure equipment, under the skin can occur. If high pressu casualty should be sent immediately to for symptoms to develop. Obtain medical attention even in the ab wounds.	a hospital. Do not wait
In case of eye contact	: Flush eye with copious quantities of wa Remove contact lenses, if present and rinsing. If persistent irritation occurs, obtain me	easy to do. Continue
If swallowed	: In general no treatment is necessary un are swallowed, however, get medical a	
Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and symptoms of black pustules and spots on the skin Ingestion may result in nausea, vomitin	of exposed areas.
	Local necrosis is evidenced by delayed tissue damage a few hours following in	
Protection of first-aiders	: When administering first aid, ensure the appropriate personal protective equipm incident, injury and surroundings.	
Notes to physician	: Treat symptomatically.	
	High pressure injection injuries require intervention and possibly steroid therap damage and loss of function. Because entry wounds are small and d seriousness of the underlying damage, determine the extent of involvement ma anaesthetics or hot soaks should be av can contribute to swelling, vasospasm surgical decompression, debridement a foreign material should be performed u anaesthetics, and wide exploration is e	by, to minimise tissue lo not reflect the surgical exploration to ay be necessary. Local voided because they and ischaemia. Prompt and evacuation of nder general

5. FIRE-FIGHTING MEASURES

Shell Naturelle S2 Hydraulic Fluid 46

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Version 1.5		Revision Date 31.12.2024	Print Date 01.01.2025
Suitable extinguishing media	:	Foam, water spray or fog. Dry chemi dioxide, sand or earth may be used f	
Unsuitable extinguishing media	:	Do not use water in a jet.	
Specific hazards during firefighting	:	Hazardous combustion products may A complex mixture of airborne solid a gases (smoke). Carbon monoxide may be evolved if occurs. Unidentified organic and inorganic co	and liquid particulates and incomplete combustion
Specific extinguishing methods	:	Use extinguishing measures that are circumstances and the surrounding e	
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	stant suit is indicated if expected. Self-Contained when approaching a fire in colothing approved to

6. ACCIDENTAL RELEASE 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 by 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 other suitable material and dispose of properly.
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 of this Safety Data Sheet.

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2024	Print Date 01.01.2025
7. HANDLING AND STORAGE		
General Precautions	: Use local exhaust ventilation if the vapours, mists or aerosols. Use the information in this data sh assessment of local circumstance appropriate controls for safe hand this material.	eet as input to a risk s to help determine
Advice on safe handling	: Avoid prolonged or repeated conta Avoid inhaling vapour and/or mists When handling product in drums, worn and proper handling equipme Properly dispose of any contamina materials in order to prevent fires.	s. safety footwear should be ent should be used.
Avoidance of contact	: Strong oxidising agents.	
Storage		
Other data	: Keep container tightly closed and place. Use properly labeled and closable	
Packaging material	: Suitable material: For containers of steel or high density polyethylene. Unsuitable material: PVC.	
Container Advice	: Polyethylene containers should no temperatures because of possible	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Biological occupational exposure limits

Biological Limit Values (BLV) have not been established for this material.

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/

Shell Naturelle S2 Hydraulic Fluid 46

rsion 1.5	Revision Date 31.12.2024	Print Date 01.01.202
Health and Safety Executive http://www.hse.gov.uk/	(HSE), UK: Methods for the Determina	tion of Hazardous Substance
Institut für Arbeitsschutz Deu	itschen Gesetzlichen Unfallversicherung	g (IFA) , Germany
http://www.dguv.de/inhalt/ind		
L'Institut National de Rechen	che et de Securité, (INRS), France http:	//www.inrs.ir/accueii
Engineering measures	: The level of protection and types vary depending upon potential ex controls based on a risk assessm Appropriate measures include:	posure conditions. Select
	Adequate ventilation to control air	rborne concentrations.
	Where material is heated, spraye greater potential for airborne cond	
	General Information:	
	Define procedures for safe handli controls.	ng and maintenance of
	Educate and train workers in the measures relevant to normal activ	
	product.	(
	Ensure appropriate selection, tes equipment used to control exposi equipment, local exhaust ventilati	ure, e.g. personal protective
	Drain down system prior to equip maintenance.	
	Retain drain downs in sealed stor subsequent recycle.	rage pending disposal or
	Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routin protective equipment to remove of contaminated clothing and footwe Practice good housekeeping.	material and before eating, ely wash work clothing and contaminants. Discard

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 appropriate combination of mask and filter.
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Shell Naturelle S2 Hydraulic Fluid 46

sion 1.5	Revision Date 31.12.2024	Print Date 01.01.202
	Select a filter suitable for the com and vapours and particles [Type A (149°F)].	5 5
Hand protection Remarks	: Where hand contact with the prod gloves approved to relevant stand US: F739) made from the followin suitable chemical protection. PVC gloves Suitability and durability of usage, e.g. frequency and duratio resistance of glove material, dexte from glove suppliers. Contaminate replaced. Personal hygiene is a k care. Gloves must only be worn o gloves, hands should be washed Application of a non-perfumed mo	lards (e.g. Europe: EN374, g materials may provide a neoprene or nitrile rubber a glove is dependent on n of contact, chemical erity. Always seek advice ed gloves should be ey element of effective han n clean hands. After using and dried thoroughly.
	For continuous contact we recomposed through time of more than 2 for > 480 minutes where suitable is short-term/splash protection we recognize that suitable gloves offer may not be available and in this contine maybe acceptable so long as and replacement regimes are followed a good predictor of glove resistant dependent on the exact composition Glove thickness should be typical depending on the glove make and	40 minutes with preference gloves can be identified. For ecommend the same but ering this level of protection ase a lower breakthrough appropriate maintenance owed. Glove thickness is no ce to a chemical as it is ion of the glove material. by greater than 0.35 mm
Eye protection	: If material is handled such that it of protective eyewear is recommend	
Skin and body protection	: Skin protection is not ordinarily re- work clothes. It is good practice to wear chemic	
Thermal hazards	: Not applicable	
Environmental exposure c	controls	
General advice	: Take appropriate measures to full relevant environmental protection contamination of the environment Section 6. If necessary, prevent u being discharged to waste water.	legislation. Avoid by following advice given i indissolved material from

treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

Shell Naturelle S2 Hydraulic Fluid 46

sion 1.5	Revision Date 31.12.2024 Print Date 01.01
IYSICAL AND CHEMICAL PR	OPERTIES
Appearance	: liquid
Colour	: Clear amber
Odour	: Data not available
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -42 °C / -44 °F Method: ISO 3016
Melting / freezing point	Data not available
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 322 °C / 612 °F Method: ISO 2592
Evaporation rate	: Data not available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Not classified as flammable but will 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
Relative density	: 0.921 (15.0 °C / 59.0 °F)
Density	: 921 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185
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 products)
Auto-ignition temperature	: > 320 °C / 608 °F

Shell Naturelle S2 Hydraulic Fluid 46

 Data not available Data not available 1522 mm2/s (-20 °C / -4 °F) Method: ASTM D445 8.4 mm2/s (100 °C / 212 °F) Method: ASTM D445
 1522 mm2/s (-20 °C / -4 °F) Method: ASTM D445 8.4 mm2/s (100 °C / 212 °F) Method: ASTM D445
 1522 mm2/s (-20 °C / -4 °F) Method: ASTM D445 8.4 mm2/s (100 °C / 212 °F) Method: ASTM D445
Method: ASTM D445 8.4 mm2/s (100 °C / 212 °F) Method: ASTM D445
Method: ASTM D445
46 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445
: Data not available
: Classification Code: Not classified
: Data not available
: This material is not expected to be a static accumulator.
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<i>,</i>

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

11. TOXICOLOGICAL INFORMATION

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5		Revision Date 31.12.2024Print Date 01.01.2025the 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: Low toxicity Based on available data, the classificat	ion criteria are not met.
Acute inhalation toxicity	:	Remarks: Based on available data, the are not met.	classification criteria
Acute dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classificat	ion 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.

Respiratory or skin sensitisation

Product:

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

Germ cell mutagenicity

Product:

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

Carcinogenicity

Product:

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5Revision Date 31.12.2024Print Date 01.01.2025Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Material	GHS/CLP Carcinogenicity Classification	
Alkyl dithiophosphate	No carcinogenicity classification.	
Amine phosphate	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.

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STOT - repeated exposure

Product:

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

Aspiration toxicity

Product:

Not 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: High pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

Remarks: Slightly irritating to respiratory system.

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2	.2024 Print Date 01.01.2025	
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 > Practically non toxic: Based on available dat	> 100 mg/l ata, the classification criteria are not met.	
Toxicity to crustacean (Acute toxicity)	Remarks: LL/EL/IL50 > Practically non toxic: Based on available dat	> 100 mg/l ata, the classification criteria are not met.	
Toxicity to algae/aquatic plants (Acute toxicity)	Remarks: LL/EL/IL50 > Practically non toxic: Based on available dat	> 100 mg/l ata, the classification criteria are not met.	
Toxicity to fish (Chronic toxicity)	Remarks: Based on av ire not met.	available data, the classification criteria	
Toxicity to crustacean (Chronic toxicity)	Remarks: Based on av ire not met.	available data, the classification criteria	
Toxicity to microorganisms (Acute toxicity)	Remarks: Based on av are not met.	available data, the classification criteria	
<u>Components:</u> Amine phosphate :			
M-Factor (Short-term (acute) aquatic hazard)			
Persistence and degradability			
Product:			
Biodegradability	Remarks: Readily biod	degradable.	
Bioaccumulative potential			

Bioaccumulative potential

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2024	Print Date 01.01.2025	
Product:			
Bioaccumulation	: Remarks: Contains components w bioaccumulate.	Remarks: Contains components with the potential to bioaccumulate.	
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on i products)	log Pow: > 6Remarks: (based on information on similar products)	
Mobility in soil			
Product:			
Mobility	: Remarks: Liquid under most environmental conditions., If it enters soil, it will adsorb to soil particles and will not be mobile.		
Other adverse effects			
no data available <u>Product:</u>			
Additional ecological information	 Does not have ozone depletion por ozone creation potential or global is a mixture of non-volatile compor released to air in any significant qui conditions of use. Poorly soluble mixture., Causes pli organisms. 	warming potential., Product nents, which will not be uantities under normal	

13. DISPOSAL CONSIDERATIONS

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.
	MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date 31.12.2024	Print Date 01.01.2025
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	: All relevant environmental regulations complied with.	in Singapore must be

14. TRANSPORT INFORMATION

International Regulations

ADR

Not regulated as a dangerous good

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.

15. REGULATORY INFORMATION

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

Local Regulations

Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations	This product is not subject to the requirements in the Act/Regulations.
Fire Safety Act and Fire Safety (Petroleum & Flammable Materials) Regulations	This product is not subject to the requirements in the Act/Regulations.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives)	This product is not subject to the requirements in the Act/Regulations.

Shell Naturelle S2 Hydraulic Fluid 46

Version 1.5	Revision Date	31.12.2024	Print Date 01.01.2025
Regulations			
Environmental Protection and Ma and Environmental Protection and Management (Hazardous Substa Regulations	d	This product is not su Act/ Regulation.	bject to control under this
The regulatory information is not this material.	intended to be c	comprehensive. Other re	egulations may apply to

Other international regulations

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

TSCA : All components listed.

16. OTHER INFORMATION

Skin Irrit.

Skin Sens.

Full text of H-Statements

H315 H317 H400 H412 H413 Full text of other abb	Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life. Harmful to aquatic life with long lasting effects. May cause long lasting harmful effects to aquatic life.
Aquatic Acute	Short-term (acute) aquatic hazard
Aquatic Chronic	Long-term (chronic) aquatic hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard

Skin irritation

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 -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)

Shell Naturelle S2 Hydraulic Fluid 46

Revision Date 31.12.2024 Print Date 01.01.2025 Version 1.5 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

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.

SG / EN