Shell Naturelle S2 Hydraulic Fluid 32

Version 1.1		Revision Date 2024.07.17	Print Date 2024.11.04	
1. PRODUCT AND COMPANY IDENTIFICATION				
Chemical product name	:	Shell Naturelle S2 Hydraulic Fluid 32		
Product code	:	00115412		
Manufacturer or supplier's Supplier's company name, address and phone number Telephone	det :	Shell Lubricants Japan K.K. Pacific Century Place Marunouchi 12F 1-11-1, Marunouchi Chiyoda-ku Tokyo 100-6212 Japan : (+81) 03-3218-1780		
Telefax Emergency telephone number	:	 (+81) 03-3218-1781 [Important notice for customer support] If you need support for product, please service centre. Lub Customer Service Centre (Lub CS Tel. 0120-064-315 / Fax. 0120-264-31 E-mail. Inquiries-Lubes-JP@shell.com (Available for Japanese office hours or 	contact our customer C) 5 (JP Toll free)	
Contact for Safety Data Sheet		If you have any enquiries about the c please email lubricantSDS@shell.con		
Recommended use of the of Recommended use	cher :	nical and restrictions on use Hydraulic oil		
Restrictions on use	:	This substance may not be used for an recommended without expert advice	y purpose other than	

2. HAZARDS IDENTIFICATION

GHS classification of chemical product 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.

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	HEALTH HAZARDS: Not classified as a health hazard unde ENVIRONMENTAL HAZARDS: Not classified as an environmental ha	
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

Chemical nature : Blend of polyol ester and additives

Hazardous components

Substance 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.

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4. FIRST-AID MEASURES		
If inhaled	: No treatment necessary under no If symptoms persist, obtain medic	
In case of skin contact	: Remove contaminated clothing. F water and follow by washing with If persistent irritation occurs, obta	soap if available.
	When using high pressure equipr under the skin can occur. If high p casualty should be sent immediat for symptoms to develop. Obtain medical attention even in t wounds.	pressure injuries occur, the tely to a hospital. Do not wait
In case of eye contact	: Flush eye with copious quantities Remove contact lenses, if presen rinsing. If persistent irritation occurs, obta	nt and easy to do. Continue
If swallowed	: In general no treatment is necess are swallowed, however, get med	
Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and sym of black pustules and spots on the Ingestion may result in nausea, v	e skin of exposed areas.
	Local necrosis is evidenced by de tissue damage a few hours follow	
Protection of first-aiders	: When administering first aid, ensu appropriate personal protective e incident, injury and surroundings.	quipment according to the
Notes to physician	: Treat symptomatically.	
	High pressure injection injuries re- intervention and possibly steroid to damage and loss of function. Because entry wounds are small seriousness of the underlying dar determine the extent of involveme anaesthetics or hot soaks should can contribute to swelling, vasosp surgical decompression, debrider foreign material should be perforr anaesthetics, and wide exploration	therapy, to minimise tissue and do not reflect the mage, surgical exploration to ent may be necessary. Local be avoided because they basm and ischaemia. Prompt ment and evacuation of med under general

5. FIRE-FIGHTING MEASURES

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Version 1.1 Suitable extinguishing media		Revision Date 2024.07.17 Foam, water spray or fog. Dry chemic	Print Date 2024.11.04
	•	dioxide, sand or earth may be used for	
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).	nd liquid particulates and
		Carbon monoxide may be evolved if i occurs. Unidentified organic and inorganic co	·
Specific extinguishing methods	:	Use extinguishing measures that are circumstances and the surrounding e	
Special protective equipment for firefighters	:	Proper protective equipment including gloves are to be worn; chemical resis large contact with spilled product is ex 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

6. ACCIDENTAL RELEASE MEASURES

protective equipment and emergency procedures	:	Avoid contact with skin and eyes.
	:	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.
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.

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7. HANDLING AND STORAGE			
Handling			
Technical measures	:	Use local exhaust ventilation if there is 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
Advice on safe handling	:	Avoid prolonged or repeated contact w Avoid inhaling vapour and/or mists. When handling product in drums, safe worn and proper handling equipment s Properly dispose of any contaminated materials in order to prevent fires.	ty footwear should be should be
Facial protective equipment	:	If material is handled such that it could protective eyewear is recommended.	l be splashed into eyes,
Describe contact avoidance, etc	:	Strong oxidising agents.	
Storage			
Other data	:	Keep container tightly closed and in a place. Use properly labeled and closable con	
		Store at ambient temperature.	
Packaging material	:	Suitable material: For containers or co steel or high density polyethylene. Unsuitable material: PVC.	ntainer linings, use mild
Container Advice	:	Polyethylene containers should not be temperatures because of possible risk	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

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.

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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.					
http://www.cdc.gov/niosh/	onal Safety and Health (NIOSH), USA	-			
Occupational Safety and Hea http://www.osha.gov/	Ith Administration (OSHA), USA: Sam	pling and Analytical Methods			
Health and Safety Executive (http://www.hse.gov.uk/	(HSE), UK: Methods for the Determina	ation of Hazardous Substances			
	schen Gesetzlichen Unfallversicherun	ıg (IFA) , Germany			
	he et de Securité, (INRS), France http	o://www.inrs.fr/accueil			
労働者の健康障害を防止するた	め化学物質の濃度基準値とその適用方法	などを定めました (mhlw.go.jp)			
Engineering measures	: The level of protection and types vary depending upon potential ex controls based on a risk assessin Appropriate measures include: Adequate ventilation to control ai Where material is heated, spraye	xposure conditions. Select nent of local circumstances. irborne concentrations. ed or mist formed, there is			
	greater potential for airborne con	centrations to be generated.			
	General Information: Define procedures for safe handl controls.	ling and maintenance of			
	Educate and train workers in the measures relevant to normal acti product.				
	Ensure appropriate selection, tes equipment used to control expos equipment, local exhaust ventilat Drain down system prior to equip maintenance.	ure, e.g. personal protective tion.			
	Retain drain downs in sealed sto subsequent recycle. Always observe good personal h washing hands after handling the drinking, and/or smoking. Routir protective equipment to remove a	ygiene measures, such as e material and before eating, nely wash work clothing and contaminants. Discard			
	contaminated clothing and footw Practice good housekeeping.	ear mat cannot de Cleaneu.			

Personal protective equipment

Protective measures

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

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Respiratory protection	 No respiratory protection is ordir conditions of use. In accordance with good industr precautions should be taken to a If engineering controls do not ma concentrations to a level which i health, select respiratory protect specific conditions of use and m Check with respiratory protective Where air-filtering respirators an appropriate combination of mast Select a filter suitable for the cor and vapours and particles [Type (149°F)]. 	ial hygiene practices, avoid breathing of material. aintain airborne s adequate to protect worker ion equipment suitable for the eeting relevant legislation. e equipment suppliers. e suitable, select an k and filter. mbination of organic gases
Hand protection		
Remarks	 Where hand contact with the progloves approved to relevant star US: F739) made from the follow suitable chemical protection. PV gloves Suitability and durability of usage, e.g. frequency and durat resistance of glove material, dex from glove suppliers. Contamina replaced. Personal hygiene is a care. Gloves must only be worn gloves, hands should be washed Application of a non-perfumed m For continuous contact we recorr breakthrough time of more than for > 480 minutes where suitable short-term/splash protection we 	ndards (e.g. Europe: EN374, ing materials may provide C, neoprene or nitrile rubber of a glove is dependent on ion of contact, chemical terity. Always seek advice ted gloves should be key element of effective hand on clean hands. After using d and dried thoroughly. noisturizer is recommended. mmend gloves with 240 minutes with preference e gloves can be identified. For recommend the same but
	recognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are fo a good predictor of glove resista dependent on the exact compos Glove thickness should be typica depending on the glove make ar	case a lower breakthrough as appropriate maintenance llowed. Glove thickness is not nce to a chemical as it is ition of the glove material. ally greater than 0.35 mm
Eye and face protection	: If material is handled such that in protective eyewear is recommer	
Skin and body protection	 Skin protection is not ordinarily r work clothes. It is good practice to wear chem 	
Thermal hazards	: Not applicable	

Environmental exposure controls

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General advice	 Take appropriate measures to fulfil relevant environmental protection I contamination of the environment k Section 6. If necessary, prevent un being discharged to waste water. V treated in a municipal or industrial before discharge to surface water. Local guidelines on emission limits must be observed for the discharge vapour. 	egislation. Avoid by following advice given in ndissolved material from Vaste water should be waste water treatment plant for volatile substances

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid at room temperature.
Colour	:	yellow
Odour	:	Data not available
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-39 °C / -38 °F Method: ISO 3016
Melting / freezing point		Data not available
Boiling point, initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	246 °C / 475 °F Method: ISO 2592
Evaporation rate	:	Data not available
Flammability		
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Lower explosion limit and uppe	er e	explosion limit / flammability limit
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

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Density and / or relative dens	ity	
Relative density	: 0.918 (15 °C / 59 °F)	
Density	: 918 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 p	products)
Auto-ignition point	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity (Dynamic)	: Data not available	
Viscosity, kinematic	: 7.22 mm2/s (100 °C / 212 °F) Method: ASTM D445	
	32.5 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	871 mm2/s (-20 °C / -4 °F) Method: ASTM D445	
Particle characteristics Particle size	: Data not available	
Explosive properties	: Classification Code: Not classified	1
Oxidizing properties	: Data not available	

10. STABILITY AND REACTIVITY

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

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Chemical stability	:	Stable.	
Possibility of hazardous reactions	:	Reacts with strong oxidising agents.	
Conditions to avoid	:	Extremes of temperature and direct sur	nlight.
Incompatible materials	:	Strong oxidising agents.	
Hazardous decomposition products	:	No decomposition if stored and applied	as directed.

11. TOXICOLOGICAL INFORMATION

Bas	is 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).
	rmation on likely routes of osure	:	Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute to	oxicity		
Pro	duct:		
Acu	te oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are not met.
Acu	te inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acu	te dermal toxicity	:	LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification 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

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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:

Remarks: 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.

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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.

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/l 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/I 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.

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<u>Components:</u> Amine phosphate :		
M-Factor (Short-term (acute) aquatic hazard)	: 1	
Persistence and degradability		
Product:		
Biodegradability	: Remarks: Readily biodegradable.	
Bioaccumulation		
Product:		
Bioaccumulation	: Remarks: Contains components w bioaccumulate.	vith the potential to
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on i products)	nformation on similar
Mobility in soil		
Product:		
Mobility	 Remarks: Liquid under most environmenters soil, it will adsorb to soil par mobile. Remarks: Floats on water. 	
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 que conditions of use. Poorly soluble mixture., Causes ple organisms. 	warming potential., Product nents, which will not be uantities under normal
Hazardous to the ozone layer		
Not applicable		
13. DISPOSAL CONSIDERATION	S	

Chemicals (residual waste)	 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
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Disposal methods

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	ground water, or be disposed of Do not dispose into the environm courses. Do not dispose of tank water both drain into the ground. This will re- contamination. Waste arising from a spillage or disposed of in accordance with p preferably to a recognised collect competence of the collector or c established beforehand.	nent, in drains or in water ttoms by allowing them to esult in soil and groundwater tank cleaning should be prevailing regulations, ctor or contractor. The
	MARPOL - see International Con Pollution from Ships (MARPOL technical aspects at controlling p	73/78) which provides
Contaminated containers and packaging	: Dispose in accordance with prev to a recognized collector or cont the collector or contractor should Disposal should be in accordance national, and local laws and reg	ractor. The competence of d be established beforehand. ce with applicable regional,
Local legislation Remarks	: Disposal should be in accordance national, and local laws and regional to the second s	

14. TRANSPORT INFORMATION

Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

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

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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.

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15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Group 4, Type 4 petroleums, (6000 litre), Hazardous rank III

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof Not applicable

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Vessel Safety Law		
Not applicable		
Aviation Law		
Not applicable		
Marine Pollution and Sea Dis	saster Prevention etc Law	
Not classified as marine pollut	ant	
Water Pollution Control Law		
Oil emissions regulations (Law	v Art. 2-5, Enforcement Order Art. 3-4)	
Waste Disposal and Public (Cleansing Law	
Industrial waste		
The components of this pro-	duct are reported in the following invent	ories:
TSCA	: All components listed.	
ENCS	: All components listed.	

16. OTHER INFORMATION

Full text of H-Statements

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

Skin sensitisation

Abbreviations and Acronyms

Skin Sens.

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 -

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Revision Date 2024.07.17 Version 1.1 Print Date 2024.11.04 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

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.

JP / EN