Version 1.1	R	evision Date 2024.07.23	Print Date 2024.11.05
1. PRODUCT AND COMPANY ID	ENTIFI	CATION	
Chemical product name	: Sł	nell Morlina S2 B 46	
Product code	: 00	1J8268	
Manufacturer or supplier's of Supplier's company name, address and phone number	: Sł Pa 1- Cł To Ja	nell Lubricants Japan K.K. acific Century Place Marunouchi 12F 11-1, Marunouchi niyoda-ku kyo 100-6212 pan	
Telephone Telefax		-81) 03-3218-1780 81) 03-3218-1781	
Emergency telephone number	If Sec Lu Te (A [Ir If Sec Lu Te E	nportant notice for customer support] you need support for product, please of rvice centre. b Customer Service Centre (Lub CSC d. 0120-064-315 / Fax. 0120-264-315 mail. Inquiries-Lubes-JP@shell.com vailable for Japanese office hours only nportant notice for customer support] you need support for product, please of rvice centre. b Customer Service Centre (Lub CSC d. 0120-064-315 / Fax. 0120-264-315 mail. Inquiries-Lubes-JP@shell.com vailable for Japanese office hours only	C) (JP Toll free) y.) contact our customer C) (JP Toll free)
Contact for Safety Data Sheet		f you have any enquiries about the co lease email lubricantSDS@shell.com	ntent of this SDS
Recommended use of the c	nemica	l and restrictions on use	
Recommended use	: Be	earing & Circulating Oil	
Restrictions on use		is substance may not be used for any commended without expert advice	purpose other than

2. HAZARDS IDENTIFICATION

GHS classification of chemical product Long-term (chronic) aquatic : Category 2 hazard

GHS label elements

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Hazard pictograms		
Signal word	: No signal word	
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard of HEALTH HAZARDS: Not classified as a health hazard un ENVIRONMENTAL HAZARDS: H411 Toxic to aquatic life with long la 	der GHS criteria.
Precautionary statements	: Prevention: P273 Avoid release to the environme Response:	nt.
	P391 Collect spillage.	
	Storage: No precautionary phrases.	
	Disposal: P501 Dispose of contents/ container disposal plant.	to an approved waste

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346. Classification based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

Hazardous components

Substance name	CAS-No.	Classification	Concentration (% w/w)
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate	68937-41-7	Repr.2; H361 STOT RE2; H373	0.25 - 0.9

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	> 5%]		Aquatic Acute2; H401 Aquatic Chronic1; H410		
	Butylated hydroxytoluene	128-37-0	Aquatic Chronic1; H410 Aquatic Acute1; H400	0.1 - 0.24	

For explanation of abbreviations see section 16.

4. FIRST-AID MEASURES	
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. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	: 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.
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.
Notes to physician	: Treat symptomatically.

FIRE-FIGHTING 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

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	occurs. Unidentified organic and inorganic o	compounds.
Specific extinguishing methods	: Use extinguishing measures that ar circumstances and the surrounding	••••
Special protective equipment for firefighters	: Proper protective equipment includi gloves are to be worn; chemical res large contact with spilled product is Breathing Apparatus must be worn a confined space. Select fire fighter relevant Standards (e.g. Europe: E	istant suit is indicated if expected. Self-Contained when approaching a fire in s clothing approved to

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Environmental precautions		Avoid contact with skin and eyes. 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.

7. HANDLING AND STORAGE

Handling	
Technical measures	 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.

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Facial protective equipment	: If material is handled such that it protective eyewear is recommend	
Describe contact avoidance, etc	: Strong oxidising agents.	
Product Transfer	: Proper grounding and bonding pr during all bulk transfer operations	
Storage		
Other data	 Keep container tightly closed and place. Use properly labeled and closable Must be stored in a diked (bunded) 	e containers.
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers steel or high density polyethylene Unsuitable material: PVC.	U
Container Advice	: Polyethylene containers should n temperatures because of possible	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
Oil mist, mineral	Not Assigned			JP OEL JSOH	
	Further informa	ation: Group 1: c	arcinogenic to humar	าร	
Oil mist, mineral	Not Assigned	OEL-M (Mist)	3 mg/m3	JP OEL JSOH	
	Further information: Substance whose OEL is set based on non- carcinogenic health effects. See III, Group 1: carcinogenic to humans				
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

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workplace may be required to	on of substances in the breathing zone of confirm compliance with an OEL and a bes biological monitoring may also be applied to the second seco	adequacy of exposure
	ment methods should be applied by a c	
Examples of sources of recor	nmended exposure measurement meth national methods may be available.	ods are given below or
	onal Safety and Health (NIOSH), USA:	Manual of Analytical Meth
Occupational Safety and Hea http://www.osha.gov/	Ith Administration (OSHA), USA: Samp	ling and Analytical Method
Health and Safety Executive http://www.hse.gov.uk/	(HSE), UK: Methods for the Determinati	on of Hazardous Substan
Institut für Arbeitsschutz Deut http://www.dguv.de/inhalt/inde	tschen Gesetzlichen Unfallversicherung ex.jsp	(IFA), Germany
L'Institut National de Recherc	he et de Securité, (INRS), France http:/	//www.inrs.fr/accueil
労働者の健康障害を防止する (mhlw.go.jp)	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
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	borne concentrations.
	Where material is heated, sprayed greater potential for airborne conc	
	General Information:	a and maintananas of
	Define procedures for safe handlin controls.	-
	Educate and train workers in the l measures relevant to normal activ product.	
	Ensure appropriate selection, test equipment used to control exposu equipment, local exhaust ventilation	re, e.g. personal protective
	Drain down system prior to equipr maintenance. Retain drain downs in sealed stor	nent break-in or
	subsequent recycle. Always observe good personal hy	
	washing hands after handling the drinking, and/or smoking. Routine	material and before eating
	protective equipment to remove c	

Personal protective equipment

Protective measures

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

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PPE suppliers.		Print Date 2024.11.0
Respiratory protection	 No respiratory protection is ordin conditions of use. In accordance with good industriprecautions should be taken to a lf engineering controls do not ma concentrations to a level which is health, select respiratory protect specific conditions of use and m Check with respiratory protective Where air-filtering respirators are appropriate combination of mast Select a filter suitable for the cor and vapours and particles [Type (149°F)]. 	al 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 followi suitable chemical protection. PV gloves Suitability and durability of usage, e.g. frequency and durati 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 recombreakthrough time of more than for > 480 minutes where suitable short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are fol a good predictor of glove resista dependent on the exact compos Glove thickness should be typication. 	ndards (e.g. Europe: EN374, ng materials may provide 'C, neoprene or nitrile rubber of a glove is dependent on on of contact, chemical tterity. Always seek advice ted gloves should be key element of effective hand on clean hands. After using d and dried thoroughly. noisturizer is recommended. nmend gloves with 240 minutes with preference e gloves can be identified. For recommend the same but fering this level of protection case a lower breakthrough as appropriate maintenance lowed. Glove thickness is not ince to a chemical as it is ition of the glove material. ally greater than 0.35 mm
Eye and face protection	depending on the glove make anIf material is handled such that in protective eyewear is recomment	t could be splashed into eyes
	: Skin protection is not ordinarily r	equired beyond standard
Skin and body protection	work clothes. It is good practice to wear chemi	

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Environmental exposur	e controls	
General advice	: Take appropriate measures to fulfill relevant environmental protection le contamination of the environment b Section 6. If necessary, prevent un being discharged to waste water. V treated in a municipal or industrial v before discharge to surface water. Local guidelines on emission limits must be observed for the discharge vapour.	egislation. Avoid by following advice given in dissolved 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	:	amber
Odour	:	Slight hydrocarbon
		Data not available
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-30 °C / -22 °F Method: JIS K 2269
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: ASTM D92 (COC)
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)

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sion 1.1 Relative vapour density	Revision Date 2024.07.23 : > 1estimated value(s)	Print Date 2024.
Density and / or relative densi		
Density	: 876 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D1298	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: log Pow: > 6 (based on information on simila	ir products)
Auto-ignition point	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity (Dynamic)	: Data not available	
Viscosity, kinematic	: 46 mm2/s (40.0 °C / 104.0 °F) Method: JIS K 2283	
	6.9 mm2/s (100 °C / 212 °F) Method: JIS K 2283	
Particle characteristics Particle size	: Data not available	
	Data not available	
Explosive properties	: Classification Code: Not classif	ied
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator.
TABILITY AND REACTIVITY		

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	:	Reacts with strong oxidising agents.

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reactions Conditions to avoid	: Extremes of temperature and direc	t sunlight.
Incompatible materials	: Strong oxidising agents.	
Hazardous decomposition products	: No decomposition if stored and ap	plied as directed.

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

Product:

Remarks: Not a skin sensitiser.

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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.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

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

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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.

12. ECOLOGICAL INFORMATION

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 individual component(s).
Ecotoxicity		
Product:		
Toxicity to fish (Acute toxicity)	:	Remarks: LL/EL/IL50 1-10 mg/I Toxic
Toxicity to crustacean (Acute toxicity)	:	Remarks: LL/EL/IL50 1-10 mg/I Toxic
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: LL/EL/IL50 1-10 mg/l Toxic
Toxicity to fish (Chronic	:	Remarks: Data not available
toxicity) Toxicity to crustacean (Chronic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
<u>Components:</u> Phenol, isopropylated, phos	pha	nte (3:1) [Triphenyl phosphate > 5%]:
Toxicity to fish (Acute toxicity)	:	LC50 (Pimephales promelas (fathead minnow)): 10.8 mg/l Exposure time: 96 h Method: Test(s) equivalent or similar to OECD Guideline 203
Toxicity to crustacean (Acute toxicity)	:	EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h Method: Test(s) equivalent or similar to OECD Guideline 202

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Toxicity to algae/aquatic plants (Acute toxicity)	: EC50 (Raphidocelis subcapitata (freshwater green alga)): : 2.5 mg/l Exposure time: 96 h Method: Test(s) equivalent or similar to OECD Test Guideli 201
Toxicity to microorganisms (Acute toxicity)	: EC50 : > 1,000 mg/l Exposure time: 3 h Method: Test(s) equivalent or similar to OECD Guideline 24
Toxicity to fish (Chronic toxicity)	 NOEC: 3.1 µg/l Exposure time: 33 d Species: Pimephales promelas (fathead minnow) Method: Test(s) equivalent or similar to OECD Guideline 2
Toxicity to crustacean(Chronic toxicity)	 NOEC: 41.5 μg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: Test(s) equivalent or similar to OECD Guideline 2
M-Factor (Long-term (chronic) aquatic hazard) Butylated hydroxytoluene:	: 10
Toxicity to fish (Acute toxicity)	: LL50 (Oryzias latipes (Orange-red killifish)): 1.1 mg/l Exposure time: 96 h Method: Regulation (EC) No. 440/2008, Annex, C.1
Toxicity to crustacean (Acute toxicity)	: EC50 (Daphnia magna (Water flea)): 0.48 mg/l Exposure time: 48 h Method: Test(s) equivalent or similar to OECD Guideline 24
M-Factor (Short-term (acute)	: 1
aquatic hazard) Toxicity to fish (Chronic toxicity)	: NOEC: 0.53 mg/l Exposure time: 30 d Species: Oryzias latipes (Orange-red killifish) Method: Test(s) equivalent or similar to OECD Guideline 2
Toxicity to crustacean(Chronic toxicity)	: NOEC: 0.069 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: Test(s) equivalent or similar to OECD Guideline 2
M-Factor (Long-term (chronic) aquatic hazard)	: 1
sistence and degradability	
Product:	
Biodegradability	: Remarks: Not readily biodegradable., Major constituents an inherently biodegradable, but contains components that ma

<u>Components:</u> Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%] :

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Biodegradability	: Exposure time: 28 d Method: Test(s) equivalent or similar to OECD Guideline 301D Remarks: Not readily biodegradable.
Butylated hydroxytoluen	e :
Biodegradability	: Exposure time: 62 d Method: OECD Test Guideline 309 Remarks: Degradation half life 5.65 days
ioaccumulation	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
Partition coefficient: n- octanol/water <u>Components:</u>	: log Pow: > 6Remarks: (based on information on similar products)
	hosphate (3:1) [Triphenyl phosphate > 5%]:
Bioaccumulation	: Species: Lepomis macrochirus (Bluegill sunfish)
	Bioconcentration factor (BCF): 634 Method: Test(s) equivalent or similar to OECD Test Guideline 305
	Remarks: Does not bioaccumulate.
lobility 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. Remarks: Floats on water.
ther adverse effects	
o 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. Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.
lazardous to the ozone laye	r
lot applicable	

13. DISPOSAL CONSIDERATIONS

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Disposal methods			
Chemicals (residual waste)	It is the re toxicity a determine methods	or recycle if possible. esponsibility of the waste ge nd physical properties of the e the proper waste classific in compliance with applicat spose into the environment,	e material generated to ation and disposal le regulations.
	ground w Waste, s Waste ar disposed preferably competer establish Do not di	oduct should not be allowed ater, or be disposed of into pills or used product is dang ising from a spillage or tank of in accordance with preva- to a recognised collector of the collector or contra- ed beforehand. spose of tank water bottom the ground. This will result ation.	the environment. gerous waste. a cleaning should be ailing regulations, or contractor. The actor should be s by allowing them to
	Pollution	- see International Conven from Ships (MARPOL 73/78 aspects at controlling pollut	8) which provides
Contaminated containers and packaging	to a reco the collec Disposal	in accordance with prevailing gnized collector or contractor ctor or contractor should be should be in accordance wi and local laws and regulation	or. The competence of established beforehand. the applicable regional,
Local legislation Remarks		should be in accordance wi and local laws and regulation	

14. TRANSPORT INFORMATION

Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

International Regulations

ADR	
UN number	: 3082
Product Name (Proper shipping name)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Phenol, isopropylated phosphate (3:1) (Triphenyl phosphate > 5%)
Class (Hazard class in transportation)	: 9

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Packing group	: III	
Labels	: 9	
Hazard Identification Number	: 90	
Environmentally hazardous	: yes	
IATA-DGR		
UN/ID No.	: UN 3082	
Product Name (Proper	: ENVIRONMENTALLY HAZARDOU	S SUBSTANCE, LIQUID,
shipping name)	N.O.S.	
	(Phenol, isopropylated phosphate (: > 5%)	3:1) (Tripnenyl phosphate
Class (Hazard class in	: 9	
transportation)		
Packing group	: III	
Labels	: 9	
IMDG-Code		
UN number	: UN 3082	
Product Name (Proper shipping name)	: ENVIRONMENTALLY HAZARDOU: N.O.S.	S SUBSTANCE, LIQUID,
срр <u>д</u> нао)	(Phenol, isopropylated phosphate (> 5%)	3:1) (Triphenyl phosphate
Class (Hazard class in	: 9	
transportation)		
Packing group	: III	
Labels	: 9	
Marine pollutant	: yes	

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

Related Regulations

Fire Service Law

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

Chemical Substance Control Law

Priority Assessment Chemical Substance	
Chemical name	Number
2,6-Di-tert-butyl-4-methylphenol	64

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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

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
2,6-Di-tert-butyl-4-cresol	262	>=0.1 - <1
Mineral oil	168	>=90 - <=100

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
Mineral oil	168

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

Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Marine Pollution and Sea Disaster Prevention etc Law Marine pollutant

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Marine Pollution and Se	ea Disaster Prevention etc Law	
Pack transportation	: (Oil.)	
Water Pollution Control	Law	
Oil emissions regulations	(Law Art. 2-5, Enforcement Order Art. 3-4)	
Waste Disposal and Pu	blic Cleansing Law	
Industrial waste		
The components of this	s product are reported in the following inv	ventories:
TSCA	: Not established.	
ENCS	: All components listed.	

16. OTHER INFORMATION

STOT RE

Full text of H-Statements

H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.	
Full text of other ab	breviations
Aquatic Acute	Short-term (acute) aquatic hazard
Aquatic Chronic	Long-term (chronic) aquatic hazard
Repr.	Reproductive toxicity

Specific target organ toxicity - repeated exposure

Abbreviations and Acronyms

AllC - 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) 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

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Development; OPPTS - Off	ice of Chemical Safety and Pollution	Prevention; PBT - Persistent,
	substance; PICCS - Philippines Invento	
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	d Restriction of Chemicals; SADT - S	
	Data Sheet; TCSI - Taiwan Chemica	
Transportation of Dangerous	Goods; TECI - Thailand Existing Che	micals Inventory; TSCA - Toxic
Substances Control Act (L	Jnited States); UN - United Nations	; UNRTDG - United Nations
	Transport of Dangerous Goods; vP v	
Bioaccumulative; WHMIS - V	Norkplace Hazardous Materials Informa	ation System
Further information		
Training advice	· Provide adequate information ir	ostruction and training for

Iraining 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).

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