## AeroShell Fluid 12

Version 3.2	Revision Date 19.06.2018	Print Date 20.06.2018
1. PRODUCT AND COMPANY IDE	NTIFICATION	
Product name	: AeroShell Fluid 12	
Product code	: 001A0041	
Manufacturer or supplier's de	tails	
Supplier	<ul> <li>Shell Eastern Petroleum (Pte) Ltd (196000089G)</li> <li>The Metropolis Tower 1, 9 North Buona Vista Drive, #07-01</li> <li>Singapore 138588</li> <li>Singapore</li> </ul>	
Telephone	: (+65) 62632975	
Telefax	: (+65) 62632049	
Emergency telephone number	: +65 6263 2975	
Email Contact for Safety Data Sheet	: If you have any enquiries about the please email lubricantSDS@shell.c	
Recommended use of the che	emical and restrictions on use	
Recommended use	Synthetic lubricating oil for general p further details consult the AeroShell www.shell.com/aviation.	
Restrictions on use	<ul> <li>This product must be used, handled accordance with the requirements of manufacturer's manuals, bulletins an</li> </ul>	the equipment

#### 2. HAZARDS IDENTIFICATION

GHS Classification Chronic aquatic toxicity GHS label elements	: Category 3
Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	: <b>Prevention:</b> P273 Avoid release to the environment.

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	Response:	
	No precautionary phrases.	
	Storage:	
	No precautionary phrases.	
	Disposal:	
	P501 Dispose of contents/ contai disposal plant.	ner to an approved waste
Sensitising components	: Contains triazole derivatives.May	produce an allergic reaction.
Other hazards which do not	result in classification	
	ontact without proper cleaning can clog oil acne/folliculitis.Used oil may contair ill burn.	

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature

: Blend of synthetic esters and additives.

Hazardous componer	nts		
Chemical name	CAS-No.	Classification	Concentration [%]
Alkaryl amine	68411-46-1	Aquatic Chronic3; H412	1 - 9.9
barium salts	25619-56-1	Acute Tox.4; H302 Skin Irrit.2; H315 Acute Tox.4; H332	1 - 4.9
Butylated hydroxytoluene	128-37-0	Aquatic Chronic1; H410 Aquatic Acute1; H400	1 - 2.4
Triazole derivative	91273-04-0	Skin Corr.1B; H314 Skin Sens.1A; H317 Aquatic Chronic1; H410 Aquatic Acute2; H401	0.01 - 0.09

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	<ul> <li>Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.</li> <li>If persistent irritation occurs, obtain medical attention.</li> </ul>

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In case of eye contact	:	Flush eye with copious quantities of w Remove contact lenses, if present and rinsing. If persistent irritation occurs, obtain m	d easy to do. Continue
If swallowed	:	In general no treatment is necessary are swallowed, however, get medical	
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptom of black pustules and spots on the ski Ingestion may result in nausea, vomit	n of exposed areas.
Protection of first-aiders	:	When administering first aid, ensure t appropriate personal protective equip incident, injury and surroundings.	
Notes to physician	:	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media	:	Foam, water spray or fog. Dry chemic 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). Carbon monoxide may be evolved if in occurs. Unidentified organic and inorganic co	nd liquid particulates and ncomplete combustion
Specific extinguishing methods	:	Use extinguishing measures that are circumstances and the surrounding ended	
Special protective equipment for firefighters	:	Proper protective equipment including gloves are to be worn; chemical resist large contact with spilled product is ex Breathing Apparatus must be worn with a confined space. Select fire fighter's relevant Standards (e.g. Europe: EN-	tant suit is indicated if spected. Self-Contained hen approaching a fire in clothing approved to

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Avoid contact with skin and eyes.
protective equipment and	
emergency procedures	
Environmental precautions	: Use appropriate containment to avoid environmental

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	contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.	
	Local authorities should be advised i cannot be contained.	if significant spillages
Methods and materials for containment and cleaning up	<ul> <li>Slippery when spilt. Avoid accidents Prevent from spreading by making a or other containment material. Reclaim liquid directly or in an absor Soak up residue with an absorbent s suitable material and dispose of prop</li> </ul>	barrier with sand, earth bent. such as clay, sand or other
Additional advice	<ul> <li>For guidance on selection of persona see Chapter 8 of this Safety Data Sh For guidance on disposal of spilled r this Safety Data Sheet.</li> </ul>	neet.

#### 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. : Strong oxidising agents. Avoidance of contact **Product Transfer** : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : -50 - 50 °C Storage temperature Other data : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Packaging material : Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC. **Container Advice** Polyethylene containers should not be exposed to high

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Butylated hydroxytoluene	128-37-0	PEL (long term)	10 mg/m3	SG PEL
Butylated hydroxytoluene	128-37-0	TWA (Inhalable fraction and vapor)	2 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 http://www.osha.gov/

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

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

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

Engineering measures	<ul> <li>The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.</li> </ul>
	Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
	General Information: Define procedures for safe handling and maintenance of controls. Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

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	Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance.	
Retain drain downs in sealed storage pendin subsequent recycle.		ge pending disposal or
	Always observe good personal hyg washing hands after handling the r drinking, and/or smoking. Routine protective equipment to remove co contaminated clothing and footwea Practice good housekeeping.	naterial and before eating, ly wash work clothing and ontaminants. Discard

#### 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 appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (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 rubber 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 hand 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. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough

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	time maybe acceptable so long as and replacement regimes are follow a good predictor of glove resistanc dependent on the exact composition Glove thickness should be typically depending on the glove make and	wed. Glove thickness is not e to a chemical as it is on of the glove material. / greater than 0.35 mm
Eye protection	: If material is handled such that it constructive eyewear is recommended	
Skin and body protection	: Skin protection is not ordinarily req work clothes. It is good practice to wear chemica	-
Thermal hazards	: Not applicable	

#### Environmental exposure controls

General advice	<ul> <li>Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 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 plant before discharge to surface water.</li> <li>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing</li> </ul>
	vapour.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	<= -60 °C / <= -76 °FMethod: Unspecified
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	220 °C / 428 °F Method: Unspecified
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit	:	Typical 10 %(V)
Lower explosion limit	:	Typical 1 %(V)

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Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.925 (15.0 °C / 59.0 °F)	
Density	: 925 kg/m3 (15.0 °C / 59.0 °F) Method: Unspecified	
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: Data not available	
Partition coefficient: n- octanol/water	: log Pow: > 6(based on information	n on similar products)
Auto-ignition temperature	: > 320 °C / 608 °F	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 8.2 mm2/s (54.4 °C / 129.9 °F) Method: Unspecified	
	11.000 mm2/s (-53.9 °C / -65.0 °F Method: Unspecified	<sup>-</sup> )
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to be	e a static accumulator.
STABILITY AND REACTIVITY	,	
Reactivity	: The product does not pose any fu addition to those listed in the follo	
Chemical stability	: Stable.	

Che	emical stability	:	Stable.
	sibility of hazardous ctions	:	Reacts with strong oxidising agents.
Cor	nditions to avoid	:	Extremes of temperature and direct sunlight.
Inco	ompatible materials	:	Strong oxidising agents.

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Hazardous decomposition products	:	No decomposition if stored and applied	as directed.
11. TOXICOLOGICAL INFORMAT	10	N	
Basis for assessment	:	Information given is based on data on the toxicology of similar products.Unlest the data presented is representative of whole, rather than for individual compo	ss indicated otherwise, the product as a
Information on likely routes of exposure	:	Skin and eye contact are the primary real although exposure may occur following	
Acute toxicity			
Product:			
Acute oral toxicity	:	LD50 rat: > 5,000 mg/kg Remarks: Low toxicity: Based on available data, the classificat	tion 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	tion 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.

#### **Components:**

#### Triazole derivative:

Remarks: May cause an allergic skin reaction in sensitive individuals.

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

#### Carcinogenicity

#### Product:

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

Material	GHS/CLP Carcinogenicity Classification
Alkaryl amine	No carcinogenicity classification.
barium salts	No carcinogenicity classification.
Butylated hydroxytoluene	No carcinogenicity classification.
Triazole derivative	No carcinogenicity classification.

Material	Other Carcinogenicity Classification	
Butylated hydroxytoluene	IARC: Group 3: Not classifiable as to its carcinogenicity to humans	

#### **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:

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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: 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).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
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#### Ecotoxicity

#### Product:

Toxicity to fish (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful	
Toxicity to crustacean (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful	
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful	
Toxicity to fish (Chronic toxicity)	: Remarks: Data not available	
Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available	
Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available	
<u>Components:</u> Butylated hydroxytoluene :		
M-Factor Triazole derivative :	: 1	

: 1

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Persistence and degradability			
Product:			
Biodegradability	:	Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment.	
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: Contains components with the bioaccumulate.	e potential to
Partition coefficient: n- octanol/water	:	log Pow: > 6Remarks: (based on inforn products)	nation on similar
Mobility in soil			
Product:			
Mobility	:	Remarks: Liquid under most environme enters soil, it will adsorb to soil particles mobile. Remarks: Floats on water.	
Other adverse effects			
no data available <u>Product:</u>			
Additional ecological information	:	Does not have ozone depletion potentia ozone creation potential or global warm is a mixture of non-volatile components released to air in any significant quantit conditions of use. Poorly soluble mixture., Causes physic organisms.	ing potential., Product , which will not be ies under normal

### **13. DISPOSAL CONSIDERATIONS**

Disposal methods	
Waste from residues	<ul> <li>Recover or recycle if possible.</li> <li>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.</li> <li>Do not dispose into the environment, in drains or in water courses</li> </ul>
	Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
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.

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	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	

#### 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

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

#### Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 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	This product is subject to the SDS, Labelling,
Safety and Health (General Provision)	PEL and other requirements in the Act/
Regulations	Regulations.
Fire Safety Act and Fire Safety (Petroleum &	This product is not subject to the requirements
Flammable Materials) Regulations	in the Act/Regulations.
Flammable Materials/ Regulations	
Maritime and Port Authority of Singapore	This product is not subject to the requirements
(Dangerous Goods, Petroleum and Explosives)	in the Act/Regulations.
Regulations	
Environmental Protection and Management Act	This product is not subject to control under this
and Environmental Protection and	Act/ Regulation.
Management (Hazardous Substances)	
Manayement (nazaruous Substances)	

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Regulations		
The regulatory information in this material.	s not intended to be comprehensive. Other	er regulations may apply to
Other international regula	tions	
The components of this p	roduct are reported in the following inv	ventories:
EINECS/ELINCS/EC TSCA	<ul><li>All components listed or polymer</li><li>All components listed.</li></ul>	exempt.

### **16. OTHER INFORMATION**

#### Full text of H-Statements

H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H332	Harmful if inhaled.	
H400	Very toxic to aquatic life.	
H401	Toxic to aquatic life.	
H410	Very 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 Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

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; CPR - Controlled Products Regulations; 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 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

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Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System				
Training advice	: Provide adequate information, in operators.	struction and training for		
Other information	: A vertical bar ( ) in the left margin from the previous version.	n indicates an amendment		
Sources of key data used t compile the Safety Data Sheet	to : The quoted data are from, but no sources of information (e.g. toxic Health Services, material supplie IUCLID date base, EC 1272 reg	cological data from Shell ers' data, CONCAWE, EU		

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.

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