According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

# Shell Turbo Fluid DR 46

Revision Date: 01/29/2019	SDS Number: 800001015512	Print Date: 01/30/2019 Date of last issue: 12/18/2018
1. IDENTIFICATION		
ct name	: Shell Turbo Flu	iid DR 46
ct code	: 001A9774	
acturer or supplier	's details	
acturer/Supplier	: Shell Oil Prod PO Box 4427 Houston TX 77 USA	
Request mer Service	: (+1) 877-276-7	285
aency telephone nu	mber	
formation	: 877-504-9351	
Information	: 877-242-7400	
nmended use of the	e chemical and restric	ctions on use
nmended use	: Fire-resistant h	ydraulic fluid.
	01/29/2019 I. IDENTIFICATION ct name ct code facturer or supplier acturer/Supplier Request mer Service gency telephone nu Information Information	01/29/2019 800001015512 I. IDENTIFICATION Ct name : Shell Turbo Fluct Ct code : 001A9774 Facturer or supplier's details acturer/Supplier : Shell Oil Prod PO Box 4427 Houston TX 7 USA Request : (+1) 877-276-7 mer Service : Jency telephone number Information : 877-504-9351 Information : 877-242-7400 Inmended use of the chemical and restrice

GHS classification in accord Long-term (chronic) aquatic hazard		
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2
Reproductive toxicity	:	Category 1B
<b>GHS label elements</b> Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<ul> <li>PHYSICAL HAZARDS:</li> <li>Not classified as a physical hazard under GHS criteria.</li> <li>HEALTH HAZARDS:</li> <li>H360F May damage fertility.</li> <li>H373 May cause damage to organs through prolonged or repeated exposure if swallowed.</li> <li>ENVIRONMENTAL HAZARDS:</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>

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Precautionary statements

### **Prevention:**

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P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### **Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention. P391 Collect spillage.

### Storage:

No precautionary phrases.

### **Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Contains trixylyl phosphate.

### Other hazards which do not result in classification

High-pressure injection under the skin may cause serious damage including local necrosis. Fire resistant fluid that is unlikely to burn without assistance from combustible materials. The classification of this material is based on OSHA HCS 2012 criteria.

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

Chemical nature

Blend of synthetic esters and additives. :

-			
Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Trixylyl Phosphate	trixylyl phos-	25155-23-1	95 - 100
	phate		
Triaryl phosphate	tris(methylphen yl) phosphate (With more than 3% ortho- isomer)	1330-78-5	0.25 - 1

### Hazardous components

### **SECTION 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 wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
		When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait

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				for symptoms to d Obtain medical at wounds.	evelop. tention even in the absence of apparent
I	n case	of eye contact	:	Remove contact le rinsing.	bious quantities of water. enses, if present and easy to do. Continue on occurs, obtain medical attention.
I	f swalld	owed	:		tment is necessary unless large quantities wever, get medical advice.
a		portant symptoms ects, both acute and l	:	of black pustules a Ingestion may res Local necrosis is a	signs and symptoms may include formation and spots on the skin of exposed areas. ult in nausea, vomiting and/or diarrhoea. evidenced by delayed onset of pain and ew hours following injection.
F	Protecti	on of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
r	medical	on of any immediate attention and special nt needed	:	Treat symptomation	cally.
				vention and possi age and loss of fu Because entry wo ousness of the un determine the extu anaesthetics or ho can contribute to s surgical decompre eign material shou	ection injuries require prompt surgical inter- bly steroid therapy, to minimise tissue dam- nction. unds are small and do not reflect the seri- derlying damage, surgical exploration to ent of involvement may be necessary. Local ot soaks should be avoided because they swelling, vasospasm and ischaemia. Prompt ession, debridement and evacuation of for- uld be performed under general anaesthet- oration is essential.

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Fire resistant fluid that is unlikely to burn without assistance from combustible materials.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment	:	Proper protective equipment including chemical resistant

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for	firefighters		large contact with Breathing Appara a confined space.	vorn; chemical resistant suit is indicated if spilled product is expected. Self-Contained tus must be worn when approaching a fire in Select fire fighter's clothing approved to Is (e.g. Europe: EN469).
SECTIO	ON 6. ACCIDENTAL RELE	AS	E MEASURES	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:	Avoid contact with	n skin and eyes.
En	vironmental precautions	:	nation. Prevent fr	containment to avoid environmental contami- om spreading or entering drains, ditches or nd, earth, or other appropriate barriers.
			Local authorities s cannot be contain	should be advised if significant spillages led.
	ethods and materials for ntainment and cleaning up	:	Prevent from spre or other containm Reclaim liquid dire Soak up residue	It. Avoid accidents, clean up immediately. eading by making a barrier with sand, earth ent material. ectly or in an absorbent. with an absorbent such as clay, sand or other and dispose of properly.
Ad	ditional advice	:	see Chapter 8 of	selection of personal protective equipment this Safety Data Sheet.

### SECTION 7. HANDLING AND STORAGE

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 as- sessment of local circumstances to help determine appropri- ate 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 mate- rials in order to prevent fires.
Avoidance of contact :	Strong oxidising agents. Strong acids. Strong bases.

For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

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Furthe age sta	r information on stor- ability	:	place. Use properly labe	ghtly closed and in a cool, well-ventilated led and closable containers. a diked (bunded) area.
Packa	ging material	:	Suitable material: steel or high dens Unsuitable materi	
Contai	ner Advice	:		tainers should not be exposed to high tem- e of possible risk of distortion.

### SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Components with workplace control parameters

### **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

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.

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

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		equipment use equipment, loc Drain down sys nance. Retain drain do subsequent red Always observ washing hands drinking, and/o protective equi	e good personal hygiene measures, such as after handling the material and before eating, r smoking. Routinely wash work clothing and pment to remove contaminants. Discard con- ning and footwear that cannot be cleaned.
Perso	onal protective equip	oment	
Resp	iratory protection	conditions of u In accordance tions should be If engineering of tions to a level select respirato cific conditions Check with res Where air-filter priate combina Select a filter s	protection is ordinarily required under normal se. with good industrial hygiene practices, precau- e taken to avoid breathing of material. controls do not maintain airborne concentra- which is adequate to protect worker health, ory protection equipment suitable for the spe- of use and meeting relevant legislation. piratory protective equipment suppliers. ing respirators are suitable, select an appro- tion of mask and filter. uitable for the combination of organic gases Type A/Type P boiling point >65°C (149°F)].
	protection emarks	gloves approve US: F739) mad suitable chemin gloves Suitabil usage, e.g. free sistance of glov glove suppliers Personal hygie Gloves must of gloves, hands cation of a non For continuous through time of 480 minutes w short-term/spla recognize that may not be ava time maybe ac and replacement	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ity and durability of a glove is dependent on quency and duration of contact, chemical re- ve material, dexterity. Always seek advice from s. Contaminated gloves should be replaced. ene is a key element of effective hand care. nly be worn on clean hands. After using should be washed and dried thoroughly. Appli- -perfumed moisturizer is recommended. a contact we recommend gloves with break- f more than 240 minutes with preference for > here suitable gloves can be identified. For ash protection we recommend the same, but suitable gloves offering this level of protection ailable and in this case a lower breakthrough ceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is the exact composition of the glove material.

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	Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.	
rotection	: If material is handled such that it could be splashed into ey protective eyewear is recommended.	es,
and body protection	<ul> <li>Skin protection is not ordinarily required beyond standard work clothes.</li> <li>It is good practice to wear chemical resistant gloves.</li> </ul>	
ctive measures	: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.	
nal hazards	: Not applicable	
onmental exposure o	ontrols	
ral advice	<ul> <li>Take appropriate measures to fulfill the requirements of relivant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. 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 vapour.</li> </ul>	tion If a
	01/29/2019 rotection and body protection ctive measures hal hazards	01/29/2019       800001015512       Date of last issue: 12/18/2018         Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.       Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.         rotection       :       If material is handled such that it could be splashed into ey protective eyewear is recommended.         and body protection       :       Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.         ctive measures       :       Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.         nal hazards       :       Not applicable         onmental exposure controls       :       Take appropriate measures to fulfill the requirements of rel vant environmental protection legislation. Avoid contaminar of the environment by following advice given in Chapter 6. necessary, prevent undissolved material from being discharge to waste water. Waste water should be 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 the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air containing the observed for the discharge of exhaust air contain

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	colourless
Odour	:	slight
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-20 °C / -4 °F Method: ISO 3016
Initial boiling point and boiling range	:	> 300 °C / 572 °F estimated value(s)
Flash point	:	270 °C / 518 °F
		Method: ASTM D92 (COC)
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available

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	er explosion limit / upper nability limit	:	no data available	)
	er explosion limit / Lower nability limit	:	no data available	)
Vapo	our pressure	:	0.440 hPa (200 °	°C / 392 °F)
Relat	tive vapour density	:	> 1 estimated value(	s)
Relat	tive density	:	1.13 (15 °C / 59	°F)
Dens	sity	:	1,130 kg/m3 (20 Method: ISO 367	
	bility(ies) /ater solubility	:	negligible	
S	olubility in other solvents	:	Data not availab	le
	tion coefficient: n- nol/water	:	log Pow: 5.63	
Auto	-ignition temperature	:	575 °C / 1067 °F	
Deco	omposition temperature	:	Data not availab	le
Visco V	osity iscosity, dynamic	:	Data not availab	le
V	iscosity, kinematic	:	43.4 mm2/s (40.	0 °C / 104.0 °F)
			Method: ISO 310	)4
			5 mm2/s (100 °C	; / 212 °F)
			Method: ISO 310	)4
Explo	osive properties	:	Not classified	
Oxidi	izing properties	:	Data not availab	le
Conc	ductivity	:	This material is r	not expected to be a static accumulator.

### SECTION 10. STABILITY AND REACTIVITY

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

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	Possibi tions	ility of hazardous reac-	:	Reacts with stror	ng oxidising agents.
(	Conditi	ons to avoid	:	Extremes of tem	perature and direct sunlight.
I	Incomp	patible materials	:	Strong oxidising Strong acids. Strong bases.	agents.
	Hazard produc	lous decomposition ts	:	Oxides of phosp	horous

### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	: Information given is based on data on the components and
	the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a
	whole, rather than for individual component(s).

### Information on likely routes of exposure

### 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., 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.

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	<u>Produ</u>	cell mutagenicity <u>ct:</u> nogenicity	: Remarks: Non m fication criteria ar	utagenic, Based on available data, the classi- e not met.
	<b>Produ</b> Remar		Based on available da	ta, the classification criteria are not met.
	IARC			is product present at levels greater than or ntified as probable, possible or confirmed by IARC.
	OSHA	L.		is product present at levels greater than or OSHA's list of regulated carcinogens.
	NTP			is product present at levels greater than or ntified as a known or anticipated carcinogen
	Repro	ductive toxicity		
	<u>Produ</u>	<u>ct:</u>		
			: Remarks: May in toxic effects.	npair fertility at doses which produce other

### STOT - single exposure

### Product:

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

### **STOT - repeated exposure**

### Product:

Remarks: May cause damage to organs or organ systems through prolonged or repeated exposure.

### Aspiration toxicity

### Product:

Not an aspiration hazard.

### **Further information**

### Product:

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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.

### SECTION 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 representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity		
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: LL/EL/IL50 < 1 mg/l Very toxic.
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 < 1 mg/l Very toxic.
Toxicity to algae (Acute tox- icity)	:	Remarks: LL/EL/IL50 < 1 mg/l Very toxic.
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available
Persistence and degradability	ty	
<u>Product:</u> Biodegradability	:	Remarks: Not readily biodegradable.

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Bio	paccumulative potential			
	oduct: baccumulation	:	Remarks: Contair cumulate.	ns components with the potential to bioac-
Мо	bility in soil			
Pro	oduct:			
Мо	bility	:		under most environmental conditions. will adsorb to soil particles and will not be
			Remarks: Sinks in	n water.
Otl	her adverse effects			
Pro	oduct:			
	ditional ecological infor- tion	:	ozone creation po Product is a mixtu	one depletion potential, photochemical otential or global warming potential. are of non-volatile components, which will not in any significant quantities under normal

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth- ods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
	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. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks :	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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### **SECTION 14. TRANSPORT INFORMATION**

### **National Regulations**

US Department of Transport UN/ID/NA number	tation Classification (49 CFR Parts 171-180) : UN 3082
Proper shipping name	<ul> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trixylyl phosphates)</li> </ul>
Class	: 9
Packing group	: III
Labels	: 9
Marine pollutant	: no
International Regulations	
<b>IATA-DGR</b> UN/ID No. Proper shipping name	<ul> <li>: UN 3082</li> <li>: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trixylyl phosphates)</li> </ul>
Class	: 9
Packing group	: III
Labels	: 9
<b>IMDG-Code</b> UN number Proper shipping name	<ul> <li>UN 3082</li> <li>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trixylyl phosphates)</li> </ul>
Class	: 9
Packing group	: III
Labels	: 9
Marine pollutant	: yes

### 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.

### SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

\*: This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

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### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Specific target organ toxicity (single or repeated exposure) Reproductive toxicity
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Water Act**

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

### **US State Regulations**

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Other regulations:

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

The components of this product are reported in the following inventories:					
EINECS	:	All components listed.			
TSCA	:	All components listed.			
DSL	:	All components listed.			

### **SECTION 16. OTHER INFORMATION**

#### **Further information**

NFPA Rating (Health, Fire, Reac- 1, 1, 0 tivity)

### Full text of other abbreviations

Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

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## Shell Turbo Fluid DR 46

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		ASTM = America BEL = Biologica BTEX = Benzer CAS = Chemica CEFIC = Europe CLP = Classifica COC = Clevelan DIN = Deutscher DMEL = Derived DNEL = Derived DSL = Canada I EC = European EC50 = Effective ECETOC = Euro gy Of Chemicals ECHA = Europe EINECS = The E Chemical Substa EL50 = Effective ENCS = Japane Inventory EWC = Europeaa GHS = Globally Labelling of Che IARC = Internati IATA = Internati IATA = Internati IC50 = Inhibitory IL50 = Inhibitory IL50 = Inhibitory IDG = Internati INV = Chinese O IP346 = Institute determination of KECI = Korea E LC50 = Lethal D LL/EL/IL = Letha LL50 = Lethal C D50 = Lethal D EL/EL/IL = Letha Chomicals RID = Persisten PICCS = Philipp Substances PNEC = Predicto REACH = Regis Chemicals RID = Regulatio gerous Goods b SKIN_DES = Sk STEL = Short te TRA = Targeted	ne, Toluene, Ethylbenzene, Xylenes I Abstracts Service aan Chemical Industry Council ation Packaging and Labelling do Open-Cup s Institut fur Normung d Minimal Effect Level No Effect Level Domestic Substance List Commission a Concentration fifty opean Center on Ecotoxicology and Toxicolo- a an Chemicals Agency European Inventory of Existing Commercial ances a Loading fifty se Existing and New Chemical Substances in Waste Code Harmonised System of Classification and micals onal Agency for Research on Cancer onal Air Transport Association / Concentration fifty Level fifty ional Maritime Dangerous Goods Chemicals Inventory e of Petroleum test method N° 346 for the polycyclic aromatics DMSO-extractables xisting Chemicals Inventory concentration fifty uose fifty per cent. al Loading/Effective Loading/Inhibitory loading pading fifty mational Convention for the Prevention of Ships No Observed Effect Concentration / No Ob- vel upational Exposure - High Production Volume it, Bioaccumulative and Toxic ine Inventory of Chemicals and Chemical ed No Effect Concentration tration Evaluation And Authorisation Of ns Relating to International Carriage of Dan- y Rail

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Shell Turbo Fluid DP 46

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TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative

A vertical bar () in the left margin indicates an amendment from the previous version.

**Revision Date** 

: 01/29/2019

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