According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

### Shell Fire-Resistant Hydraulic Fluid S3 DU 68

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#### **SECTION 1. IDENTIFICATION**

Product name : Shell Fire-Resistant Hydraulic Fluid S3 DU 68

Product code : 001I6216

#### Manufacturer or supplier's details

Manufacturer/Supplier	: Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA
SDS Request	: (+1) 877-276-7285
Customer Service	:

#### Emergency telephone number

Spill Information	:	877-242-7400
Health Information	:	877-504-9351

### Recommended use of the chemical and restrictions on use

Recommended use : Fire-resistant hydraulic fluid.

#### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitisation	:	Category 1
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or re-

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		peated exposur ENVIRONMEN <sup>-</sup> H412 Harmful to	
Preca	autionary statements	P273 Avoid rele	eathe dust/ fume/ gas/ mist/ vapours/ spray. ase to the environment. ective gloves/ protective clothing/ eye protection/
			ON SKIN: Wash with plenty of water and soap. skin irritation or rash occurs: Get medical advice/
		<b>Storage:</b> No precautiona	ry phrases.
		<b>Disposal:</b> P501 Dispose o posal plant.	f contents/ container to an approved waste dis-
Conta	rdous components whic ains phenothiazine. ains Oxazoline derivativ		e label:
	r hazards which do no		
Prolo	nged or repeated skin o	contact without proper	cleaning can clog the pores of the skin result-

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin rest ing 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.

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

:

Substance / Mixture : Mixture

Chemical nature : Blend of polyalkylene glycol and additives.

#### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Phenothiazine	phenothiazine	92-84-2	1 - 2.49
Oxazoline derivative	4-ethyl-2-(8- heptadecenyl)- 2-oxazoline-4- methanol	68140-98-7	0.1 - 0.99

#### **SECTION 4. FIRST-AID MEASURES**

If inhaled

No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

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In	In case of skin contact		large amounts of washing with soap	ated clothing. Immediately flush skin with water for at least 15 minutes, and follow by and water if available. If redness, swelling, s occur, transport to the nearest medical al treatment.
			under the skin car casualty should be for symptoms to d	pressure equipment, injection of product n occur. If high pressure injuries occur, the e sent immediately to a hospital. Do not wait evelop. tention even in the absence of apparent
In	case of eye contact		Remove contact le rinsing.	pious quantities of water. enses, if present and easy to do. Continue on occurs, obtain medical attention.
lf	swallowed			tment is necessary unless large quantities wever, get medical advice.
ar	ost important symptoms nd effects, both acute and elayed		may include itchin Oil acne/folliculitis of black pustules a Ingestion may res Local necrosis is e tissue damage a f Damage to blood- fatigue and anaen	(allergic skin reaction) signs and symptoms g and/or a rash. 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. forming organs may be evidenced by: a) nia (RBC), b) decreased resistance to infec- sive bruising and bleeding (platelet effect).
Pi	otection of first-aiders			ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
m	dication of any immediate edical attention and special eatment needed		Treat symptomatio	cally.
			vention and possil age and loss of fu Because entry wo ousness of the un determine the exte anaesthetics or ho can contribute to s surgical decompre eign material shou	ection injuries require prompt surgical inter- oly 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

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	Suitable	e extinguishing media	:		y or fog. Dry chemical powder, carbon diox- may be used for small fires only.
	Unsuita media	ble extinguishing	:	Do not use water i	n a jet.
	Specific hazards during fire- fighting		:	Fire resistant fluid that is unlikely to burn without assistance from combustible materials.	
	Specific extinguishing meth- ods		:	5 5	measures that are appropriate to local cir- ne surrounding environment.
	Special protective equipment for firefighters		:	gloves are to be w large contact with Breathing Apparat a confined space.	equipment including chemical resistant yorn; 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 s (e.g. Europe: EN469).

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. 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.

#### 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 assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this
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			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.		
Avoid	Avoidance of contact		Strong oxidising agents.		
Further information on stor- age stability		:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.		
			Store at ambient	temperature.	
Pack	aging material	:	Suitable material: steel or high dens Unsuitable materi		
Container Advice		:		ainers 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

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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 product.
		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 mainte- nance. Retain drain downs in sealed storage pending disposal or
		subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard con- taminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Personal protective equipme	ent	
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.
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 re- sistance 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. Appli- cation of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break- through time of more than 240 minutes with preference for >

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			short-term/splast recognize that su may not be avail time maybe acce and replacement a good predictor dependent on the Glove thickness	ere suitable gloves can be identified. For h protection we recommend the same but uitable gloves offering this level of protection able and in this case a lower breakthrough eptable so long as appropriate maintenance t regimes are followed. Glove thickness is not of glove resistance to a chemical as it is e exact composition of the glove material. should be typically greater than 0.35 mm e glove make and model.
Eye	e protection	:	Wear full face sh	ield if splashes are likely to occur.
Ski	n and body protection	:		esistant gloves/gauntlets and boots. Where , also wear an apron.
Pro	tective measures	:		ive equipment (PPE) should meet recom- I standards. Check with PPE suppliers.
The	ermal hazards	:	Not applicable	
En	Environmental exposure co		ls	
Ge	neral advice	:	vant environmen of the environmen necessary, preve charged to waste municipal or indu discharge to surf Local guidelines	e measures to fulfill the requirements of rele- tal protection legislation. Avoid contamination ent by following advice given in Section 6. If ent undissolved material from being dis- e water. Waste water should be treated in a ustrial waste water treatment plant before face water. on emission limits for volatile substances of for the discharge of exhaust air containing
SECTIC	ON 9. PHYSICAL AND CHE	EMI	CAL PROPERTIE	ES
Ар	pearance	:	liquid	
Co	lour	:	blue	
Od	our	:	Slight hydrocart	oon
Od	our Threshold	:	Data not availat	ble
рH		:	Not applicable	
ροι	ur point	:	Method: Unspection Not applicable	cified
Init ran	ial boiling point and boiling ge	:	> 280 °C / 536 ° estimated value	

Flash point : 280 °C / 536 °F

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			Method: ASTM D	092 (COC)
Evap	pration rate	:	Data not availabl	e
Flam	mability (solid, gas)	:	Data not availabl	e
	r explosion limit / upper nability limit	:	Typical 10 %(V)	
	r explosion limit / Lower nability limit	:	Typical 1 %(V)	
Vapo	ur pressure	:	< 0.5 Pa (20 °C /	′ 68 °F)
			estimated value(	s)
Relat	ve vapour density	:	> 1 estimated value(	s)
Relat	ve density	:	0.993 (15.0 °C /	59.0 °F)
Dens	ty	:	993 kg/m3 (15.0 Method: ASTM [	
	ility(ies) ater solubility	:	Moderate	
So	lubility in other solvents	:	Data not availabl	e
	ion coefficient: n- ol/water	:		ation on similar products)
Auto-	ignition temperature	:	> 320 °C / 608 °F	=
Deco	mposition temperature	:	Data not availabl	e
Visco Vis	sity scosity, dynamic	:	Data not availabl	e
Vi	scosity, kinematic	:	68.0 mm2/s (40.0	0 °C / 104.0 °F)
			Method: ASTM E	0445
			12.3 mm2/s (100	) °C / 212 °F)
			Method: ASTM E	0445
Explo	sive properties	:	Classification Co	de: Not classified
Oxidi	zing properties	:	Data not availabl	e
Cond	uctivity	:	This material is r	not expected to be a static accumulator.

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#### 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.
Possibility of hazardous reac- tions	:	Reacts with strong oxidising agents.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	Strong oxidising agents.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	<ul> <li>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</li> </ul>
	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	<ul> <li>LD50 (rat): &gt; 5,000 mg/kg</li> <li>Remarks: Low toxicity:</li> <li>Based on available data, the classification criteria are not met.</li> </ul>
Acute inhalation toxicity	: Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 5,000 mg/kg</li> <li>Remarks: Low toxicity:</li> <li>Based on available data, the classification criteria are not met.</li> </ul>

#### 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.

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#### Respiratory or skin sensitisation

#### Product:

Remarks: Expected to be a skin sensitizer.

#### Components:

#### Phenothiazine:

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

Remarks: Classified Skin Sensitiser Category 1B.

#### 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.

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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:

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

#### Aspiration toxicity

#### Product:

Not an aspiration hazard.

#### **Further information**

#### Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

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

Remarks: Slightly irritating to respiratory system.

#### **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 10-100 mg/l Harmful
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to algae (Acute tox- icity)	:	Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to fish (Chronic tox-	:	Remarks: Data not available

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	icity)				
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) Toxicity to microorganisms (Acute toxicity)		:	Remarks: Data no	ot available
			:	Remarks: Data no	ot available
	Comp	onents:			
		thiazine: or (Acute aquatic tox-	:	1	
	Persis	tence and degradabil	ity		
	Product: Biodegradability Bioaccumulative potential Product: Bioaccumulation Mobility in soil		:	Remarks: Readily	v biodegradable.
			:	Remarks: Contair cumulate.	ns components with the potential to bioac-
	<u>Produc</u> Mobilit <u>y</u>		:		under most environmental conditions. will adsorb to soil particles and will not be
				Remarks: Floats	on water.
	Other	adverse effects			
	Produe			Deservethers	
	Additio	nal ecological infor-	:	ozone creation po Product is a mixtu	cone depletion potential, photochemical otential or global warming potential. ure of non-volatile components, which will not in any significant quantities under normal
				Poorly soluble mi Causes physical f	xture. fouling of aquatic organisms.

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#### **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. Waste arising from a spillage or tank cleaning should be dis- posed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.
		MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.
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.

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

#### **National Regulations**

#### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

#### **International Regulations**

#### 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

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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 Section 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

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
-		(lbs)	(lbs)
Normal Butyl Alcohol	71-36-3	100	100 (F003)
Normal Butyl Alcohol	71-36-3	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

#### 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	:	Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure)
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

#### Pennsylvania Right To Know

Phenothiazine	92-84-2
Normal Butyl Alcohol	71-36-3
Diphenylamine	122-39-4
2-(2-butoxyethoxy)ethanol	112-34-5
Triethylene glycol monobutyl ether	143-22-6

#### 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.

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### California List of Hazardous Substances

Phenothiazine

92-84-2

#### 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:				
REACH	:	All components listed or polymer exempt.		
TSCA	:	All components listed.		
DSL	:	All components listed.		

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

#### **Further information**

NFPA Rating (Health, Fire, Reac- 2, 1, 0 tivity)

#### Full text of other abbreviations

Abbreviations and Acronyms	<ul> <li>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).</li> <li>The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.</li> </ul>
	ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicolo- gy Of Chemicals

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# Shell Fire-Resistant Hydraulic Fluid S3 DU 68

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			EINECS = The E Chemical Substa EL50 = Effective ENCS = Japanes Inventory EWC = European GHS = Globally H Labelling of Cher IARC = Internatio IATA = Internatio IC50 = Inhibitory IL50 = Inhibitory IMDG = Internatio INV = Chinese C IP346 = Institute determination of KECI = Korea Ex LC50 = Lethal Co LD50 = Lethal Co LD50 = Lethal Do LL/EL/IL = Letha LL50 = Lethal LO MARPOL = Inter Pollution From S NOEC/NOEL = N served Effect Lev OE_HPV = Occu PBT = Persistent PICCS = Philippi Substances PNEC = Predicte REACH = Regist Chemicals RID = Regulatior gerous Goods by SKIN_DES = Ski STEL = Short ter TRA = Targeted TSCA = US Toxi TWA = Time-We	Loading fifty se Existing and New Chemical Substances in Waste Code Harmonised System of Classification and micals onal Agency for Research on Cancer nal Air Transport Association Concentration fifty Level fifty onal Maritime Dangerous Goods hemicals Inventory of Petroleum test method N° 346 for the polycyclic aromatics DMSO-extractables tisting Chemicals Inventory oncentration fifty ose fifty per cent. I Loading/Effective Loading/Inhibitory loading ading fifty national Convention for the Prevention of hips to Observed Effect Concentration / No Ob- vel pational Exposure - High Production Volume t, Bioaccumulative and Toxic ne Inventory of Chemicals and Chemical ed No Effect Concentration ration Evaluation And Authorisation Of as Relating to International Carriage of Dan- v Rail n Designation m exposure limit Risk Assessment c Substances Control Act
	A vertio	cal bar ( ) in the left ma	rgin indicates an ame	ndment from the previous version.
	Source	s of key data used to	: The quoted data	are from, but not limited to, one or more

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).
Revision Date	:	12/01/2021

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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