

### SECTION 1: IDENTIFICATION

**1.1 GHS Product identifier:** 

### UNITED ROCK DRILL OIL ISO 320 WITH MV

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

Relevant uses: Lubricant

Uses advised against: All uses not specified in this section or in section 7.3

### **1.3** Manufacturer's or supplier's details:

UNITED OIL COMPANY PTE LTD 14 Tuas Drive 2, Singapore 638647 638647 Singapore - Singapore - Singapore Phone.: +65 6861 1157 - Fax: +65 6861 3101 enquiry@united-oil.com http://www.united-oil.com/default.aspx?uc=14

**1.4 Emergency phone number:** +65 68611157

### SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

### SS 586:Part 2:2014:

The product is not classified as dangerous according to SS 586 : Part 2 : 2014

2.2 GHS label elements, including precautionary statements: SS 586:Part 2:2014: None

### 2.3 Other hazards which do not result in classification:

Non-applicable

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances:

Non-applicable

### 3.2 Mixtures:

Chemical description: Mixture based on hydrocarbons and additives

#### Components:

In accordance with SS 586:Part 3:2008 (2014), the product contains:

	Identification	Chemical name/Classification	Concentration		
CAS:	64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C	10 - <25 %		
To ob	To obtain more information on the hazards of the substances consult sections 11, 12 and 16.				

### SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary first-aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet **By eye contact:** 



SECTION 4.	FIRST-AID MEASURES	(continued)
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This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes. **By ingestion/aspiration:** 

In case of consumption, seek immediate medical assistance showing the SDS of this product.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

### SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

### 5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Special protective actions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

### 6.3 Methods and materials for containment and cleaning up:

#### It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.



### SECTION 7: HANDLING AND STORAGE (continued)

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximum Temp.:	30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters/Occupational exposure limits:

Substances whose occupational exposure limits have to be monitored in the workplace according to Workplace Safety and Health (General Provisions) Regulations

Identification	Occupa	ational exposure limi	ts
Molybdenum, bis(ditridecylcarbamodithioato)di-µ-oxodioxo-di-, sulfurized	PEL (Long Term)	Ľ,	5 mg/m³
CAS: 71342-89-7	PEL (Short Term)		

#### 8.2 Appropriate engineering control measures:

A.- Individual protection measures, such as personal protective equipment (PPE)

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using chemical protection gloves

"As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application"

### D.- Ocular and facial protection

	Pictogram	PPE	Remarks
	Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.
E	Bodily protection		

### Safety data sheet According to SS 586:Part 3:2008 (2014)



# UNITED ROCK DRILL OIL ISO 320 WITH MV

SEC	SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)							
		Pictogram		PPE		F	Remarks	
				Work clothing		Replace before any evidence of deterioration.		
				_		· · · · · · · · · · · · · · · · · · ·		
				Anti-slip work shoes		Poplaco hoforo any	v evidence of deterioration.	
				And-silp work shoes		Replace before any		
	E - Add	litional emerge	ancy mea					
	T Auc	-	-			<b>F</b>	Chandanda	
		Emergency mea	asure	Standards		Emergency measure	Standards	
				ANSI Z358-1			DIN 12 899	
		Emorgonavish		ISO 3864-1:2011, ISO 386	54-4:2011	Evolution of the station of the stat	ISO 3864-1:2011, ISO 3864-4:2011	
		Emergency sho				Eyewash stations		
		nmental exp				<b>6</b> 11 <b>1 1 1 1 1 1 1 1 1</b>		
						of the environment it is recon mation see subsection 7.1.D	mmended to avoid environmental	
	opinage		loudet a					
SEC		PHYSICAL		EMICAL PROPERTIES				
9.1				ical and chemical prop	erties:			
			ition see	the product datasheet.				
	Appea							
	-	al state at 20 º	C:		Liquid			
	Appear	ance:			Not available			
	Color:				Not avail			
	Odor:				Not avail			
		threshold:			Non-app	licable *		
	Volatil	-						
	-	point at atmos		ressure:	Non-app			
		pressure at 2			Non-app			
		pressure at 5			Non-app			
	•	ation rate at 2			Non-app	licable *		
		ct descriptio	n:					
		/ at 20 °C:			871.2 kg	/m <sup>3</sup>		
		e density at 20			0.871	1. I.I. Ju		
		ic viscosity at			Non-app			
		itic viscosity at			Non-app			
		itic viscosity at			~318 cS			
		itic viscosity at	t 100 °C:		~24.4 cS			
		itration:			Non-app			
	pH:	donoite at 20	00-		Non-app			
		density at 20		hustor 20 0Ct	Non-app			
		n coefficient n		waler 20 °C:	Non-app			
		ty in water at	20 °C:		Non-app			
		ty properties:	ratura		Non-app			
		position tempe		and the state of the state of the state	Non-app			
	*Not rele	evant due to the r	nature of th	ne product, not providing inform	nation prope	rty of its hazards.		



SECTION 9: PHYSICAL AND CHEMICAL	PROPERTIES (continued)	
Melting point/freezing point:	Non-applicable *	
Explosive properties:	Non-applicable *	
Oxidising properties:	Non-applicable *	
Flammability:		
Flash Point:	>200 °C	
Flammability (solid, gas):	Non-applicable *	
Autoignition temperature:	Non-applicable *	
Lower flammability limit:	Non-applicable *	
Upper flammability limit:	Non-applicable *	
Explosive:		
Lower explosive limit:	Non-applicable *	
Upper explosive limit:	Non-applicable *	
0.2 Other information:		
Surface tension at 20 °C:	Non-applicable *	
Refraction index:	Non-applicable *	
*Not relevant due to the nature of the product,	not providing information property of its hazards.	

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):



### SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- B- Inhalation (acute effect):
  - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see section 3.

- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.

- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as
  - it does not contain substances classified as dangerous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Distillates (petroleum), hydrotreated heavy paraffinic , < 3 % IP 346, > 20,5 cSt @ 40°C	LD50 oral	>5000 mg/kg	
CAS: 64742-54-7	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L (4 h)	

# Acute Toxicity Estimate (ATE mix):

	Ingredient(s) of unknown toxicity	
Oral >5000 mg/kg (Calculation method)		Non-applicable
Dermal	>5000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

### SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available



### SECTION 12: ECOLOGICAL INFORMATION (continued)

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available 12.3 Bioaccumulative potential:

- Not available
- **12.4 Mobility in soil:** Not available
- 12.5 Results of PBT and vPvB assessment: Non-applicable
- 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Disposal methods:

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See epigraph 6.2.

### Regulations related to waste management:

Legislation related to waste management:

Environmental Public Health (Toxic Industrial Waste) Regulations. Hazardous Waste (Control of Export, Import and Transit) Act.

### SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to SS 586-1 (2014):

- 14.1UN number:Non-applicable14.2UN proper shipping name:Non-applicable14.3Transport hazard class(es):Non-applicable14.4Packing group, if applicable:Non-applicable14.5Environmental hazard:No
  - **14.6** Special precautions for user Physico-Chemical properties:
- 14.7 Transport in bulk according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code:

Transport of dangerous goods by sea:

With regard to IMDG 39-18:

see section 9



14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group, if applicable:	Non-applicable	
14.5	Marine pollutant:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable	
Transpo	rt of dangerous goods by air:		
With rega	ard to IATA/ICAO 2020:		
14.1	UN number:	Non-applicable	
14.2	UN proper shipping name:	Non-applicable	
14.3	Transport hazard class(es):	Non-applicable	
	Labels:	Non-applicable	
14.4	Packing group, if applicable:	Non-applicable	
14.5	Environmental hazard:	No	
14.6	Special precautions for user		
	Physico-Chemical properties:	see section 9	
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable	

### SECTION 15: REGULATORY INFORMATION

FCTION 14. TRANSPORT INFORMATION (con

### **15.1** Safety, health and environmental regulations specific for the product in question:

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

### Other legislation:

Environmental Protection and Management (Hazardous Substances) Regulations. Environmental Protection and Management Act. Environmental Public Health Act. Fire Safety Act. Workplace Safety and Health Act. Workplace Safety and Health (General Provisions) Regulations.

### SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with SS 586Part 3:2008 (2014) - Specification for hazard communication for hazardous chemicals and dangerous goods - Part 3 : Preparation of safety data sheets (SDS).

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### SS 586:Part 2:2014:

Non-applicable

### Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

#### Principal bibliographical sources:

http://www.nea.gov.sg

#### Abbreviations and acronyms:



### SECTION 16: OTHER INFORMATION (continued)

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.