

# Safety Data Sheet

**RINGFREE\***

Revision date 05/Oct/2023

Supersedes date 26/Nov/2018

Version 7

## 1. Identification

### 1.1 Product identifier

Product name RINGFREE\*  
Product code PID12240

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Drilling fluid additive. Thinner.

Uses advised against Consumer use

### 1.3 Details of the supplier of the safety data sheet

**Supplier****M-I L.L.C.**

P.O.Box 42842

Houston, TX 77242

www.slb.com

Telephone: 1 281-561-1511

**M-I SWACO, A Schlumberger Company**

200 - 125, 9th Avenue SE

Calgary, Alberta T2G 0P6, Canada

Telephone: 1-780-962-8221

**Schlumberger Serviços de Petróleo LTDA**

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Telefone: +55 22 3311-8974

**E-mail address** SDS@slb.com**Prepared by**

Global Regulatory Compliance - Chemicals (GRC - Chemicals) , Anne Karin (Anka) Fosse

### 1.4 Emergency Telephone Number

**Emergency telephone** (24 Hour) Asia Pacific +65 3158 1074, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, USA +1 281 561 1600, Canada +1 800 579 7421, Argentina: +54 11 5984 3690, Brazil : +55 11 3197 5891

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**GHS - Classification**

Health hazards Not classified

Environmental hazards Not classified

Physical Hazards Not classified

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## **2.2 Label elements**

### **Signal word**

None

### **Hazard Statements**

This product is not classified as hazardous therefore no (H) hazard statements assigned.

### **Precautionary Statements**

This product is not classified as hazardous therefore has no (P) precautionary statements assigned.

### **Hazards not otherwise classified**

None known

### **Unknown acute toxicity**

Not applicable.

## **3. Composition/information on Ingredients**

### **3.1 Substances**

Not applicable

### **3.2 Mixtures**

This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

### **Comments**

No Comments.

## **4. First Aid Measures**

### **4.1 First aid measures**

#### **Inhalation**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

#### **Ingestion**

Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

#### **Skin contact**

Wash skin thoroughly with soap and water. Seek medical attention if irritation occurs.

#### **Eye Contact**

Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn. Get medical attention if any discomfort continues.

### **4.2. Most important symptoms and effects, both acute and delayed**

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<b>General advice</b>	The severity of the symptoms described will vary dependant of the concentration and the length of exposure. If adverse symptoms develop, the casualty should be transferred to hospital as soon as possible.
<b>Symptoms</b>	
<b>Inhalation</b>	Please see Section 11. Toxicological Information for further information.
<b>Ingestion</b>	Please see Section 11. Toxicological Information for further information.
<b>Skin contact</b>	Please see Section 11. Toxicological Information for further information.
<b>Eye contact</b>	Please see Section 11. Toxicological Information for further information.
<b><u>4.3 Indication of any immediate medical attention and special treatment needed</u></b>	
<b>Notes to physician</b>	Treat symptomatically

## 5. Fire-Fighting Measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Water Fog, Alcohol Foam, CO<sub>2</sub>, Dry Chemical.

**Extinguishing media which must not be used for safety reasons**

None known.

### 5.2. Special hazards arising from the substance or mixture

**Unusual fire and explosion hazards**

None known.

**Hazardous combustion products**

Fire or high temperatures create: Carbon oxides (CO<sub>x</sub>).

### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

**Special Fire-Fighting Procedures**

Containers close to fire should be removed immediately or cooled with water.

## 6. Accidental Release Measures

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

Use personal protective equipment. See also section 8. If spilled, take caution, as material can cause surfaces to become very slippery.

**Advice for non-emergency responders**

Evacuate non-essential personnel.

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**Advice for emergency responders**

Evacuate personnel to safe areas. Use non-slip safety shoes in areas where spills or leaks can occur. Wear respiratory protection. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to applicable federal, state and local regulations.

**Environmental exposure controls**

Local authorities should be advised if significant spillages cannot be contained.

**6.3 Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. After cleaning, flush away traces with water.

**6.4 Reference to other sections**

See section 13 for more information.

## 7. Handling and Storage

**7.1 Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid spills and splashing during use. If spilled, take caution, as material can cause surfaces to become very slippery.

**Hygiene measures**

Use good work and personal hygiene practices to avoid exposure. When using do not smoke, eat or drink. Wash hands and face before breaks and immediately after handling the product. Remove contaminated clothing.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures/precautions** Ensure adequate ventilation.

**Storage precautions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing.

**Packaging materials** Use specially constructed containers only.

## 8. Exposure Controls/Personal Protection

**8.1 Control parameters**

**Exposure limits** Contains no substances with occupational exposure limit values

**IDLH (Immediately Dangerous to Life or Health)**

Immediately Dangerous to Life or Health (IDLH) is established by the US National Institute for Occupational Safety and Health

(NIOSH). The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.

## 8.2 Exposure controls

A risk assessment is recommended to be performed by a qualified and trained personnel to analyze the worksite and recommends the appropriate controls such as engineering controls, work practice controls, and administrative controls as primary means of reducing employee exposure. When there is a remaining hazards after applying the primary controls, Personal Protective Equipment (PPE) must be used.

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

### Engineering Controls

Ensure adequate ventilation. Local exhaust ventilation.

### Personal protective equipment

<b>Eye protection</b>	Tightly fitting safety goggles. Safety glasses with side-shields.
<b>Hand protection</b>	Use protective gloves made of: Nitrile Neoprene Be aware that liquid may penetrate the gloves. Frequent change is advisable.
<b>Respiratory Protection</b>	All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. If exposed to airborne mist/aerosol of this product, use an organic vapor cartridge with a P-95 pre-filter attached. In work environments containing oil mist/aerosol, use an organic vapor cartridge with a P-95 pre-filter attached. If exposed to vapors from this product, use a NIOSH/MSHA-approved respirator with an organic vapor cartridge.
<b>Skin and body protection</b>	Wear suitable protective clothing, Eye wash and emergency shower must be available at the work place.
<b>Hygiene Measures</b>	Wash hands before eating, drinking or smoking, Remove and wash contaminated clothing before re-use.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear
<b>Color</b>	Straw - Amber
<b>Odor</b>	Slight
<b>Odor threshold</b>	Not applicable

<b>Property</b>	<b>Values</b>	<b>Remarks</b>
<b>pH</b>	7 - 9	
<b>pH @ dilution</b>	No information available	
<b>Melting point</b>	< 5 °C / < 41 °F	
<b>Boiling point/range</b>	100 °C / 212 °F	
<b>Flash point</b>	Does not flash	

<b>Evaporation rate (BuAc =1)</b>	No information available	
<b>Flammability</b>	Not applicable	
<b>Explosion limits:</b>		
<b>Upper explosion limit</b>	No information available	
<b>Lower explosion limit</b>	No information available	
<b>Vapor pressure</b>	2.3 kPa	@ 20 °C
<b>Relative Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.3	@ 25 °C
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	Soluble in water	
<b>Solubility in other solvents</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	100 - 600 cPs	
<b>Partition Coefficient (n-octanol/water)</b>	No information available	
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing properties</b>	None known.	

**9.2 Other information**

<b>Pour point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content(%)</b>	None
<b>Density and/or Relative Density</b>	No information available

**Comments**

The data listed above are typical physical and chemical properties and should not be construed as product specification.

## 10. Stability and Reactivity

**10.1 Reactivity**

No specific reactivity hazards associated with this product.

**10.2 Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3 Possibility of Hazardous Reactions****Hazardous polymerization**

Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

Keep away from direct sunlight. Protect from freezing.

**10.5 Incompatible materials**

No materials to be especially mentioned.

**10.6 Hazardous decomposition products**

See Section 5.2.

## 11. Toxicological Information

### 11.1 Information on toxicological effects

**Acute toxicity****Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye contact**

May cause slight irritation.

**Skin contact**

Prolonged contact may cause redness and irritation.

**Ingestion**

Ingestion may cause stomach discomfort.

**Delayed and immediate effects and chronic effects from short and long term exposure****Sensitization**

This product does not contain any components suspected to be sensitizing.

**Mutagenic effects**

This product does not contain any known or suspected mutagens.

**Carcinogenicity**

This product does not contain any known or suspected carcinogens.

**Reproductive toxicity**

This product does not contain any known or suspected reproductive hazards.

**Developmental toxicity**

Not known to cause birth defects or have a deleterious effect on a developing fetus.

**Routes of Exposure**

None known.

**Routes of entry**

No route of entry noted.

**Specific target organ toxicity - Single exposure**

Not classified

**Specific target organ toxicity - Repeated exposure**

Not classified.

**Aspiration hazard**

Not applicable.

## 12. Ecological Information

### 12.1 Toxicity

**Toxicity to algae**

This product is not considered toxic to algae.

**Toxicity to fish**

This product is not considered toxic to fish.

**Toxicity to daphnia and other aquatic invertebrates**

This product is not considered toxic to invertebrates.

**12.2 Persistence and degradability**

Not readily biodegradable.

**12.3 Bioaccumulative potential**

Does not bioaccumulate.

**12.4 Mobility**

Soluble in water.

**12.5 Results of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

**12.6 Other adverse effects.**

None known.

## 13. Disposal Considerations

**13.1 Waste treatment methods**

**Disposal Method** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. Transport information

**14.1. UN number**

UN No. (DOT)	Not regulated
UN No. (MT/ANTT)	Not regulated
UN No. (TDG)	Not regulated
UN/ID No. (ADR/RID/ADN/ADG)	Not regulated
UN No. (IMDG/ANTAQ)	Not regulated
UN No. (ICAO/ANAC)	Not regulated
UN No. (DPC)	Not regulated

**14.2. UN proper shipping name**

The product is not covered by international regulation on the transport of dangerous goods

**14.3 Hazard class(es)**



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<b>DOT Hazard class</b>	Not regulated
<b>ANTT Hazard class</b>	Not regulated
<b>TDG Hazard class</b>	Not regulated
<b>ADR/RID/ADN/ADG Hazard class</b>	Not regulated
<b>IMDG/ANTAQ Hazard class</b>	Not regulated
<b>ICAO/ANAC Hazard class/division</b>	Not regulated
<b>DPC Hazard class</b>	Not regulated

**14.4 Packing group**

<b>DOT Packing group</b>	Not regulated
<b>ANTT Packing group</b>	Not regulated
<b>TDG Packing group</b>	Not regulated
<b>ADR/RID/ADN/ADG Packing group</b>	Not regulated
<b>IMDG/ANTAQ Packing group</b>	Not regulated
<b>ICAO/ANAC Packing group</b>	Not regulated
<b>DPC Packing group</b>	Not regulated

**14.5 Environmental hazard**

Marine pollutant	No
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**14.6 Special precautions**

Not applicable

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

Please contact SDS@slb.com for info regarding transport in Bulk.

## 15. Regulatory Information

**International inventories**

<b>USA (TSCA)</b>	Complies
<b>Canada (DSL)</b>	Complies
<b>Philippines (PICCS)</b>	Complies
<b>Japan (ENCS)</b>	Complies
<b>China (IECSC)</b>	Complies
<b>Australia (AICS)</b>	Complies
<b>Korean (KECL)</b>	Complies
<b>New Zealand (NZIoC)</b>	Complies

**Europe - REACH**

All products supplied from the European Economic Area (EEA) are compliant with the REACH Regulation EC 1907/2006. For products supplied from the EEA, Schlumberger and/or its suppliers have pre-registered and is registering all of the substances that it and/or its suppliers manufactures in or imports into the EEA that are subject to Title II of the REACH Regulation. All products supplied from outside the EEA are subject to REACH only if imported into the EEA. The importer of the products must comply with REACH for each imported substance. Contact REACH@slb.com for REACH information.

**IMPORTS, Canada**

No import volume restrictions.

**U.S. Federal and State Regulations**

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

**California Proposition 65**

This product does not contain chemical[s] which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Canadian Classification**

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

<b>Brazil Regulation</b>	This SDS was prepared in accordance with Brazil law ABNT NBR 14725:2014
<b>Federal Police</b>	Not determined
<b>Army</b>	Not determined
<b>ANVISA</b>	Not determined
<b>MTE (NR 15)</b>	No information available

**16. Other Information**

<b>Supersedes date</b>	26/Nov/2018
<b>Revision date</b>	05/Oct/2023
<b>Version</b>	7
<b>This SDS has been revised in the following section(s)</b>	All sections. No changes with regard to classification have been made.
<b>HMIS classification</b>	
Health	0
Flammability	0
Physical hazard	0
PPE	B

N/A - Not Applicable, N/D - Not Determined.

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