# **HALLIBURTON**

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

# **RM-63™**

Revision Date: 21-Sep-2015 Revision Number: 20

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name RM-63™ Internal ID Code HM003750

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

Recommended Use Rheology Modifier

Sector of use SU2 - Mining, (including offshore industries)

Product category PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents,

other unspecific

Process categories PROC4 - Use in batch and other process (synthesis) where opportunity for exposure

arises

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

Halliburton Manufacturing Services, Ltd. Halliburton House, Howemoss Crescent

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**1.4. Emergency telephone number** +44 8 08 189 0979 / 1-760-476-3961

Emergency telephone - §4	45 - (EC)1272/2008
Europe	112
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)
Cyprus	+210 7793777
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790
Italy	Poison Center, Milan (IT): +39 02 6610 1029
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Poisons Information (NO):+ 47 22 591300
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
Romania	+40 21 318 36 06
Spain	Poison Information Service (ES): +34 91 562 04 20
United Kingdom	NHS Direct (UK): +44 0845 46 47

# SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008** 

Not classified

#### 2.2. Label Elements

Not classified

## **Hazard Pictograms**

Signal Word None

#### **Hazard Statements**

Not Classified

## Precautionary Statements - EU (§28, 1272/2008)

None

**Contains** 

Substances CAS Number

Contains no hazardous substances in concentrations above NA

cut-off values according to the competent authority

# 2.3. Other Hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

# SECTION 3: Composition/information on Ingredients

## 3.1. Substances Substance

Substances	EINECS	CAS Number	PERCENT (w/w)	EU - CLP Substance Classification	REACH No.
Contains no hazardous substances in concentrations above cut-off values according to the competent authority	NA	NA	60 - 100%	Not applicable	No data available

For the full text of the H-phrases mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

4.1. Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Ingestion** Under normal conditions, first aid procedures are not required.

# 4.2. Most Important symptoms and effects, both acute and delayed

No significant hazards expected.

## 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

# **SECTION 5: Firefighting Measures**

## 5.1. Extinguishing media

**Suitable Extinguishing Media** 

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

## **Special Exposure Hazards**

Decomposition in fire may produce harmful gases.

# 5.3. Advice for firefighters

#### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

# **SECTION 6: Accidental release measures**

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

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation.

See Section 8 for additional information

## 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

## 6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

#### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

# **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Wash hands after use. Avoid breathing vapors. Ensure adequate ventilation. Launder contaminated clothing before reuse. Use appropriate protective equipment.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

# 7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 36 months.

# 7.3. Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

# **SECTION 8: Exposure Controls/Personal Protection**

## 8.1. Control parameters

**Exposure Limits** 

Exposure Ellints					
Substances	CAS Number	EU	UK	Netherlands	France
Contains no hazardous substances in concentrations above cut-off values according to the competent authority	NA	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Germany	Spain	Portugal	Finland
Contains no hazardous	NA	Not applicable	Not applicable	Not applicable	Not applicable
substances in					
concentrations above					
cut-off values according to					
the competent authority					

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Contains no hazardous	NA	Not applicable	Not applicable	Not applicable	Not applicable
substances in					
concentrations above					
cut-off values according to					
the competent authority					

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Contains no hazardous	NA	Not applicable	Not applicable	Not applicable	Not applicable
substances in					
concentrations above					
cut-off values according to					

the commetent outhority			
the competent authority			

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Contains no hazardous	NA	Not applicable	Not applicable	Not applicable	Not applicable
substances in					
concentrations above					
cut-off values according to					
the competent authority					

Derived No Effect Level (DNEL)

No information available.

Worker

**General Population** 

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

**Engineering Controls** Use in a well ventilated area.

## Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection If engineering controls and work practices cannot keep exposure below occupational

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Organic vapor respirator.

Hand Protection Normal work gloves.
Skin Protection Normal work coveralls.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

Environmental Exposure Controls Do not allow material to contaminate ground water system

# **SECTION 9: Physical and Chemical Properties**

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Dark

Odor: Fatty acid Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

pH:No data availableFreezing Point/RangeNo data availableMelting Point/RangeNo data availableBoiling Point/Range300 °C / 572 °F

Flash Point 247 °C / 475 °F Cleveland Open Cup (COC)

Flammability (solid, gas)

upper flammability limit

lower flammability limit

No data available

No data available

No data available

Evaporation rate < 1

Vapor Pressure< 0.001 mmHg</th>Vapor DensityNo data available

Specific Gravity 0.95

**Water Solubility** Insoluble in water Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature Decomposition Temperature** No data available **Viscosity** No data available **Explosive Properties** No information available **Oxidizing Properties** No information available

9.2. Other information

VOC Content (%) 0%
Liquid Density 7.9 lbs/gal

# **SECTION 10: Stability and Reactivity**

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

# **SECTION 11: Toxicological Information**

# 11.1. Information on Toxicological Effects

**Acute Toxicity** 

Inhalation None known.

**Eye Contact** May cause mild eye irritation. **Skin Contact** May cause mild skin irritation.

**Ingestion** None known.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are

chronic health hazards.

# Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous substances in concentrations above cut-off values according to the competent authority	NA	No data available	No data available	No data available

# **SECTION 12: Ecological Information**

# 12.1. Toxicity Ecotoxicity Effects

	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Contains no hazardous substances in concentrations above cut-off values according to the competent authority	NA	No information available	No information available	No information available	No information available

#### 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Contains no hazardous substances in	NA	No information available
concentrations above cut-off values according to		
the competent authority		

## 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Contains no hazardous substances in	NA	No information available
concentrations above cut-off values according to		
the competent authority		

# 12.4. Mobility in soil

Substances	CAS Number	Mobility
Contains no hazardous substances in concentrations	NA	No information available
above cut-off values according to the competent		
authority		

#### 12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

#### 12.6. Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# **SECTION 13: Disposal Considerations**

13.1. Waste treatment methods

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

Incineration recommended in approved incinerator according to federal, state, and local

regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

# **SECTION 14: Transport Information**

IMDG/IMO

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

<u>RID</u>

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not restricted
Not applicable
Not applicable

<u>ADR</u>

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable

IATA/ICAO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:

Not restricted
Not applicable
Not applicable

\_\_\_\_\_

Environmental Hazards: Not applicable

**14.1. UN Number:** Not restricted

14.2. UN Proper Shipping Name: Not restricted

**14.3.** Transport Hazard Class(es): Not applicable

**14.4. Packing Group:** Not applicable

**14.5. Environmental Hazards:** Not applicable

14.6. Special Precautions for User: None

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

# **SECTION 15: Regulatory Information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Inventories** 

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory
All components listed on inventory or are exempt.
All components listed on inventory or are exempt.
All components listed on inventory or are exempt.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 1: Low hazard to waters.

#### 15.2. Chemical Safety Assessment

No information available

## **SECTION 16: Other Information**

#### Full text of H-Statements referred to under sections 2 and 3

None

# Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

CLP - REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification,

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC - Chemical Product category

PEL - Permissible Exposure Limit

ppm - parts per million

PROC - Process category

REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL - Short Term Exposure Limit

SU - Sector of Use category

## Key literature references and sources for data

www.ChemADVISOR.com/ NZ CCID

Revision Date: 21-Sep-2015

**Revision Note** 

SDS sections updated: 1

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

#### **Disclaimer Statement**

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**End of Safety Data Sheet**