Safety data sheet number PID1375

Version 4

Revision date 08/Feb/2019 Supercedes Date: 26/Nov/2018



# Safety Data Sheet SAFE-COR\* HT

# 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name SAFE-COR\* HT Product code PID1375

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

Recommended Use Corrosion inhibitor

Uses advised against Consumer use

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

#### **Supplier**

M-I Drilling Fluids UK Limited Westhill Business Park Westhill AB32 6JL Aberdeenshire Scotland United Kingdom

+47 51577424

SDS@slb.com

## 1.4 Emergency Telephone Number

**Emergency telephone** - (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

# 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### **GHS Classification**

## **Health hazards**

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2

## **Environmental hazards**

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Chronic aquatic toxicity	Catagory 2	
KATIOTIC ACCATIC TOXICITY	ICAIEUUIV 3	
Chronic aquatic toxicity	Category 3	

Physical Hazards Not classified



#### 2.2 Label elements



## **Hazard Statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

#### Supplementary precautionary statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

## Contains

Sodium thiocyanate

#### 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

Thermal decomposition can lead to release of irritating and toxic gases and vapours

# 3. Composition/information on Ingredients



#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%
Sodium thiocyanate	207-754-4	540-72-7	30-60

#### Comments

The product contains other ingredients which do not contribute to the overall classification.

## 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. Seek medical attention if irritation occurs.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Seek immediate medical attention/advice.

**Eye Contact** Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses, if worn.

Continue to rinse for at least 15 minutes. Seek medical attention if irritation occurs.

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

General advice 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.

**Symptoms** 

**Inhalation** Please see Section 11. Toxicological Information for further information.

**Ingestion** Please see Section 11. Toxicological Information for further information.

**Skin contact** Please see Section 11. Toxicological Information for further information.

**Eye contact** Please see Section 11. Toxicological Information for further information.

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

Notes to physician Treat symptomatically.

# 5. Firefighting Measures

## 5.1 Extinguishing media

Suitable extinguishing media



Water Fog, Alcohol Foam, CO2, Dry Chemical.

# Extinguishing media which must not be used for safety reasons

High volume water jet.

#### 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 (COx), Nitrogen oxides (NOx), Sulphur oxides.

#### 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.

#### 6.2 Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.

#### **Environmental exposure controls**

Avoid release to the environment. 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.

#### **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

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place Protect from moisture

Avoid contact with: Acids Strong oxidising agents

Storage class Chemical storage.

Packaging materials

Use specially constructed containers only

# 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

#### **Component Information**

Chemical Name	Arabic	Australia	Egypt
Sodium thiocyanate	Not determined	Not determined	Not determined
Chemical Name	India	Indonesian	Japan
Sodium thiocyanate	Not determined	Not determined	Not determined
Chemical Name	Kazakhstan	Kuwait	New Zealand
Sodium thiocyanate	10 mg/m <sup>3</sup> MAC	Not determined	Not determined
Chemical Name	Malaysia	Philippines	Russia
Sodium thiocyanate	Not determined	Not determined	10 mg/m <sup>3</sup> MAC
Chemical Name	Thailand	Vietnam	Turkey
Sodium thiocyanate	Not determined	Not determined	Not determined

#### 8.2 Exposure controls

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 Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into work environment.

Personal protective equipment

Eye protection Use eye protection according to EN 166, designed to protect against liquid splashes Tightly

fitting safety goggles Safety glasses with side-shields

Hand protection Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee

training

Impervious gloves made of: Nitrile Butyl Break through time >480 minutes



Glove thickness >=0.5 mm

Be aware that liquid may penetrate the gloves. Frequent change is advisable. Respiratory protection

No personal respiratory protective equipment normally required In case of insufficient ventilation wear suitable respiratory equipment Respirator with a vapor filter (EN 141) Chemical respirator with inorganic vapour cartridge (Grey B). At work in confined or poorly

ventilated spaces, respiratory protection with air supply must be used.

Skin and body protection Wear suitable protective clothing Eye wash and emergency shower must be available at the

work place.

Wash hands before eating, drinking or smoking Remove and wash contaminated clothing **Hygiene Measures** 

before re-use









#### 8.2.3 Environmental exposure controls

Use appropriate containment to avoid environmental contamination See section 6 for more **Environmental exposure** 

information

# 9. Physical and Chemical Properties

**PMCC** 

9.1 Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** Aqueous solution Odourless Odour Colour Clear **Odour threshold** Not applicable

**Property** Values Remarks

6.5-7.0 pН pH @ dilution

No information available Melting / freezing point No information available Boiling point/range > 122 °C / 252 °F Flash point > 100 °C / > 375 °F

**Evaporation rate** No information available

Flammability (solid, gas) Not applicable

Flammability Limit in Air

**Upper flammability limit** Not applicable Lower flammability limit Not applicable

No information available Vapour pressure Vapour density No information available

Specific gravity

**Bulk density** No information available Relative density No information available

Water solubility Soluble in water Solubility in other solvents Insoluble in oil.

**Autoignition temperature** No information available **Decomposition temperature** No information available



Kinematic viscosity

Dynamic viscosity

No information available
No information available

log Pow Not determined

Explosive properties Not applicable Oxidising properties None known

9.2 Other information

Pour pointNo information availableMolecular weightNo information available

VOC content(%) None

**Density** 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

Contact with acids liberates very toxic gas.

#### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

# 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerisation

Hazardous polymerisation does not occur.

#### 10.4 Conditions to avoid

Keep away from direct sunlight. Protect from moisture.

## 10.5 Incompatible materials

Acids. Strong oxidising agents.

## 10.6 Hazardous decomposition products

See Section 5.2.

# 11. Toxicological Information

## 11.1 Information on toxicological effects

**Acute toxicity** 

**Inhalation** Harmful by inhalation.

**Eye contact** Causes serious eye irritation.

**Skin contact** Harmful in contact with skin. May be absorbed through the skin in harmful amounts.



**Ingestion** Harmful if swallowed.

Unknown acute toxicity Not applicable.

#### Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium thiocyanate	= 764 mg/kg ( Rat )	> 2000 mg/kg	No data available

Sensitisation 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.

Routes of Exposure Inhalation. Ingestion. Eye contact. Skin contact.

Routes of entry Inhalation.

Specific target organ toxicity -

Single exposure

Specific target organ toxicity -

Repeated exposure

Not classified

Not classified.

**Aspiration hazard** Not applicable.

Other information Key literature references and sources for data. See Section 16 for more information.

# 12. Ecological Information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects

## Toxicity to algae

See component information below.

# Toxicity to fish

See component information below.

#### Toxicity to daphnia and other aquatic invertebrates

See component information below.

Toxicology data for the components

	Toxicology data for the components		
Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other	
-	-	aquatic invertebrates	
	Toxicity to fish	Toxicity to fish Toxicity to algae	



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	Sodium thiocyanate	65 mg/l	116 mg/l	3.56 mg/l

## 12.2 Persistence and degradability

See component information below.

Chemical Name	Persistence and degradability
Sodium thiocyanate	Readily biodegradable Test OECD 301D 28 days 80%

## 12.3 Bioaccumulative potential

See component information below.

Chemical Name	Bioaccumulation
Sodium thiocyanate	log Pow 2.52

#### 12.4 Mobility

#### **Mobility**

See component information below.

Chemical Name	Mobility
Sodium thiocyanate	Soluble in water

#### Mobility in soil

See component information below.

Chemical Name	Mobility in soil
Sodium thiocyanate	No information available

## 12.5 Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

## 12.6 Other adverse effects.

None known.

#### 12.7 Other information

Key literature references and sources for data. See Section 16 for more information.

# 13. Disposal considerations

# 13.1 Waste treatment methods



Waste from residues/unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Empty containers should be transported/delivered using a registered waste carrier for local

recycling or waste disposal.

# 14. Transport information

## 14.1. UN number

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)

ADR/RID/ADN/ADG Hazard class

IMDG Hazard class

ICAO Hazard class/division

Not regulated
Not regulated

14.4 Packing group

ADR/RID/ADN/ADG Packing Group Not regulated Not regulated IMDG Packing group Not regulated Not regulated

#### 14.5 Environmental hazard

No

#### Marine pollutant

No

#### 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

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

This safety data sheet complies with the requirements of:

The Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/2013] (CLASS Regulations)

The Industry Code of Practice on Chemical Classification and Hazard Communication 2014 [P.U. (B) 128/2014] (ICOP)

International inventories



USA, Toxic Substances Control Act Complies

inventory (TSCA)

Canada (DSL)CompliesPhilippines (PICCS)CompliesInventory - Japan - Existing andComplies

New Chemicals list
China (IECSC)
Australia (AICS)
Korea (KECL)
Complies
Complies
Inventory - New Zealand - Inventory
Complies

of Chemicals (NZIoC)

## 16. Other Information

Prepared by Global Regulatory Compliance - Chemicals (GRC - Chemicals), Sandra McWilliam

Supercedes Date: 26/Nov/2018

Revision date 08/Feb/2019

Version 4

This SDS has been revised in the

following section(s)

All sections No changes with regard to classification have been made.

## Key literature references and sources for data

www.ChemADVISOR.com
Supplier
National Chemical Inventories
National regulatory information
National occupational exposure limits

#### **HMIS** classification

Health 2
Flammability 1
Physical hazard 0
PPF J

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