Safety data sheet number PID170 Version 6

Revision date 24/Dec/2018 Supercedes Date: 30/Dec/2015



# Safety Data Sheet POLY-SAL\* HT

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

## 1.1 Product identifier

Product name POLY-SAL\* HT

Product code PID170

**Country Limitations** This SDS is not for use in EU/EEA.

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

**Recommended Use** Filtration-control. / Rheology modifier.

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 Not classified

**Environmental hazards** 

Chronic aquatic toxicity Category 3

Physical Hazards Not classified

# 2.2 Label elements



## Signal word

None

## **Hazard Statements**

H412 - Harmful to aquatic life with long lasting effects

## **Precautionary statements**

P273 - Avoid release to the environment

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

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#### **Contains**

Starch

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione

## 2.3 Other hazards

Not classified as PBT/vPvB by current EU criteria

# Australian statement of hazardous/dangerous nature

Classified as Hazardous according to the criteria of NOHSC. HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

# 3. Composition/information on Ingredients

## 3.1 Substances

Not applicable

## 3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%
Starch	Listed	Proprietary	60-100
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	208-576-7	533-74-4	< 1

## 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. Get medical attention if symptoms occur.

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

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

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

None known.

# 5.2. Special hazards arising from the substance or mixture

#### Unusual fire and explosion hazards

Dust may form explosive mixture in air.

## **Hazardous combustion products**

Fire or high temperatures create: Carbon oxides (COx).

# 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



Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Use personal protective equipment. See also section 8. Material becomes slippery when wet. Use caution if wet.

# 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**

Cover powder spill with plastic sheet or tarp to minimise spreading. Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Take precautionary measures against static discharges. Avoid dust formation. 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. Avoid dust formation. Material becomes slippery when wet. Use caution if wet.

## **Hygiene Measures**

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

## 7.2 Conditions for safe storage, including any incompatibilities

precautionary measures against static discharges.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place Avoid heat, flames

and other sources of ignition. Suspended dust may present a dust explosion hazard Protect

from moisture Avoid contact with: Strong oxidising agents Sulfuric acid.

Storage class Chemical storage.

## 8. Exposure Controls/Personal Protection

## 8.1 Control parameters

Exposure Limits No biological limit allocated



# **Component Information**

Chemical Name	Arabic	Australia	Egypt
Starch	10 mg/m³ TWA	10mg/m³TWAinhalable dust	Not determined
Tetrahydro-3,5-dimethyl-2H-1,3,5-th iadiazine-2-thione	Not determined	Not determined	Not determined
Chemical Name	India	Indonesian	Japan
Starch	Not determined	10 mg/m³ TWA	Not determined
Tetrahydro-3,5-dimethyl-2H-1,3,5-th iadiazine-2-thione	Not determined	Not determined	Not determined
Chemical Name	Kazakhstan	Kuwait	New Zealand
Starch	Not determined	Not determined	10 mg/m³ TWA
Tetrahydro-3,5-dimethyl-2H-1,3,5-th iadiazine-2-thione	2 mg/m³ MAC	Not determined	Not determined
Chemical Name	Malaysia	Philippines	Russia
Starch	10 mg/m <sup>3</sup> TWA	Not determined	10 mg/m <sup>3</sup> MAC
Tetrahydro-3,5-dimethyl-2H-1,3,5-th iadiazine-2-thione	Not determined	Not determined	2 mg/m³ MAC
Chemical Name	Thailand	Vietnam	Turkey
Starch	Not determined	Not determined	Not determined
Tetrahydro-3,5-dimethyl-2H-1,3,5-th iadiazine-2-thione	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 Mechanical ventilation or local exhaust ventilation is required.

Personal protective equipment

Eye protection Hand protection Safety glasses with side-shields Tightly fitting safety goggles

Wear gloves according to EN 374 to protect against skin effects from powders Use

protective gloves made of: Nitrile Neoprene Frequent change is advisable

Respiratory protection

No personal respiratory protective equipment normally required In case of insufficient

ventilation wear suitable respiratory equipment Half mask with a particle filter P2 (BS EN 143) 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.

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

before re-use









# 8.2.3 Environmental exposure controls

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

information

# 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state Solid

AppearancePowder DustOdourOdourlessColourOff-whiteOdour thresholdNot applicable

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

**pH** No information available

pH @ dilution 4-7 1%

Melting / freezing point

Boiling point/range
Flash point
Evaporation rate

No information available
No information available
No information available
No information available

Flammability (solid, gas) Not applicable

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Not applicable
Not applicable

Vapour pressureNo information availableVapour densityNo information available

Specific gravity 1.5

**Bulk density** 300-700 kg/m³ (19-44 lb/ft3) **Relative density** No information available

Water solubility Soluble in water

Solubility in other solvents
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
log Pow

No information available

**Explosive properties** Suspended dust may present a dust explosion hazard

Oxidising properties No information available

9.2 Other information

Pour pointNo information availableMolecular weightNo information availableVOC content(%)No information availableDensityNo 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

Dust may form explosive mixture in air.

## 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

Avoid heat, flames and other sources of ignition. Take precautionary measures against static charges. Protect from moisture. Avoid dust formation.

## 10.5 Incompatible materials

Strong oxidising agents. Sulfuric acid.

## 10.6 Hazardous decomposition products

See Section 5.2.

# 11. Toxicological Information

## 11.1 Information on toxicological effects

**Acute toxicity** 

**Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system.

**Eye contact** Dust may cause mechanical irritation.

**Skin contact** Prolonged contact may cause redness and irritation.

**Ingestion** Ingestion may cause stomach discomfort.

Unknown acute toxicity Not applicable.

## Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Starch	No data available	No data available	No data available
Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thi	= 550 mg/kg ( Rat )	= 7 g/kg ( Rabbit )	= 8400 mg/m <sup>3</sup> ( Rat ) 4 h
one			

**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.

Routes of entry Inhalation.

Specific target organ toxicity -

Single exposure

Not classified

Specific target organ toxicity - Repeated exposure

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

Chemical Name	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Starch	No information available	No information available	No information available
iadiazine-2-thione	0.12 - 0.21 m LC50 Oncorhynchus mykiss 96 h 10.0 - 22.0 mg/L LC50 Cyprinus carpio 96 h 12 - 31.7 mg/L LC50 Oncorhynchus mykiss 96 h 0.2 - 0.4 mg/L LC50 Lepomis macrochirus 96 h	subspicatus 96 h	0.26 - 0.37 mg/L EC50 Daphnia magna 48 h 9.5 - 14.8 mg/L EC50 Daphnia magna 48 h = 0.3 mg/L EC50 Daphnia magna 48 h

# 12.2 Persistence and degradability

No product level data available.

## 12.3 Bioaccumulative potential

No product level data available.



## 12.4 Mobility

## Mobility

Soluble in water.

## Mobility in soil

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 Not regulated Not regulated



ICAO Hazard class/division Not regulated

14.4 Packing group

ADR/RID/ADN/ADG Packing Group

IMDG Packing group

ICAO Packing group

Not regulated
Not regulated
Not regulated

## 14.5 Environmental hazard

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

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

Australian Standard for the Uniform Scheduling of Drugs and Poisons

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione Schedule 6

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC: 2011 (2003)].

National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004) 3rd Edition].

National Occupational Health and Safety Commission's Exposure Standards for Atmospheric Contaminants in the occupational Environment [NOHSC:1003 (1995)].

Safe Work Australia.

Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

# International inventories

**USA, Toxic Substances Control Act** Complies

inventory (TSCA)

Canada (DSL) Complies
Philippines (PICCS) Complies
Inventory - Japan - Existing and Complies

**New Chemicals list** 



China (IECSC)CompliesAustralia (AICS)CompliesKorea (KECL)CompliesInventory - New Zealand - InventoryComplies

of Chemicals (NZIoC)

This SDS is not for use in EU/EEA.

# 16. Other Information

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

Supercedes Date: 30/Dec/2015

Revision date 24/Dec/2018

Version 6

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 0
Flammability 1
Physical hazard 0
PPE E

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