SDS no. PID1588

Version 11

Revision date 20/Oct/2021 Supersedes date 30/Jun/2020



# Safety Data Sheet TANNATHIN\*

# 1. Identification

# 1.1 Product identifier

Product name TANNATHIN\*

Product code PID1588

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

Recommended Use Drilling fluid additive. Dispersant.

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.miswaco.slb.com Telephone: 1 281-561-1511

# Schlumberger Serviços de Petróleo LTDA

Rua Internacional 500 Cavaleiro - Macaé, RJ. CEP: 27.930-075

Telefone: +55 22 3311-8974

E-mail address SDS@slb.com

#### Prepared by

Global Regulatory Compliance - Chemicals (GRC - Chemicals)

# 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

Toutti nazarao	
Carcinogenicity	Category 1A
Specific target organ toxicity - Repeated exposure	Category 2

Environmental hazards Not classified

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# **Physical Hazards**

Combustible dust

# 2.2 Label elements



#### **Hazard Statements**

H350i - May cause cancer by inhalation

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

May form combustible dust concentrations in air

# **Precautionary Statements**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust, fume, gas, mist, vapors, spray

P280 - Wear protective gloves, protective clothing, eye protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

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

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, ventilating, lighting, equipment

P243 - Take precautionary measures against static discharge

# Hazards not otherwise classified

None known

Unknown acute toxicity

Not applicable.

# 3. Composition/information on Ingredients

# 3.1 Substances

Chemical Name	CAS No	Weight-%
Humic acid, sodium salt	1415-93-6	60-100
Crystalline silica (impurity)	14808-60-7	<10

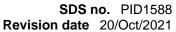
# 3.2 Mixtures

Not applicable

## Comments

The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. First Aid Measures





# 4.1 First aid measures

**Inhalation** Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Get

medical attention immediately if symptoms occur.

Ingestion Rinse mouth. If swallowed, call a poison control center or physician immediately. 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. Remove contaminated clothing and launder

before reuse. Get medical attention if irritation persists.

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. 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** Dust may be irritating to the respiratory tract. Repeated or prolonged inhalation of

crystalline silica dust can cause delayed lung injury, and other diseases, including silicosis

and lung cancer.

**Ingestion** Ingestion may cause stomach discomfort.

**Skin contact**Contact with dust can cause mechanical irritation or drying of the skin.

Eye contact Dust contact with the eyes can lead to mechanical irritation.

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

Notes to physician 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

Suspended dust may present a dust explosion hazard.

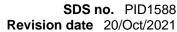
## **Hazardous combustion products**

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke), Silicon oxide, Nitrogen oxides (NOx), Ammonia.

#### 5.3 Advice for firefighters

## Special protective equipment and precautions 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 identified in Section 8. Evacuate personnel to safe areas. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Avoid dust formation.

#### Advice for non-emergency responders

Evacuate non-essential personnel.

# 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

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 minimize 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. Use personal protective equipment as required. Avoid dust formation. Avoid contact with skin and eyes. Fine dust dispersed in air may ignite.

# 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. Keep airborne concentrations below exposure limits.

Storage precautions Keep containers tightly closed in a dry, cool and well-ventilated place. Follow safe

warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking. Keep away from open flames, hot surfaces and sources of ignition. Protect from moisture.

Avoid contact with:. Strong oxidizing agents.

Packaging materials Use specially constructed containers only.



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# 8. Exposure Controls/Personal Protection

#### 8.1 Control parameters

Component Information

Chemical Name	ACGIH TLV	OSHA PEL	Argentina - Occupational Exposure Limits - TWAs (CMPs)	Brazil - Occupational Exposure Limits - TWAs (LTs)	Mexico - Occupational Exposure Limits - TWAs (LMPE-PPTs)
Humic acid, sodium salt	Not determined	Not determined	Not determined	Not determined	Not determined
Crystalline silica (impurity)	0.025 mg/m <sup>3</sup>	50 μg/m³ TWA respirable fraction	0.05 mg/m³ TWA	Not determined	0.025 mg/m³ TWA VLE-PPT (respirable fraction)

Crystalline silica (impurity)

OSHA - Final PELs - Table Z-3 Mineral Dusts

(250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction

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

This product contains substance(s) classified as Immediately Dangerous to Life or Health (IDLH) 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.

Chemical Name	IDLH (Immediately Dangerous to Life or Health)
Humic acid, sodium salt	Not applicable
1415-93-6	
Crystalline silica (impurity)	50 mg/m3 IDLH (respirable dust)
14808-60-7	

## 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.

Personal protective equipment

**Eye protection** Tightly fitting safety goggles.

**Hand protection** Wear chemical resistant gloves such as nitrile or neoprene.

Respiratory Protection 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 particles of this product use at least a NIOSH-approved N95 half-mask disposable or re-useable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved

P95 half-mask disposable or re-useable particulate respirator.

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.





# 9. Physical and Chemical Properties

@ 20 °C

9.1 Information on basic physical and chemical properties

Solid Physical state Powder Dust **Appearance** Color Black Odor Mild

Not applicable **Odor threshold** 

Property Values Remarks No information available

pН

pH @ dilution 4-5 1% solution

**Melting point** No information available Boiling point/range No information available

Flash point 153.9 °C / 309 °F **PMCC** 

Evaporation rate (BuAc =1) No information available

Not applicable **Flammability** 

**Explosion limits:** 

**Upper explosion limit** No information available Lower explosion limit No information available Vapor pressure No information available No information available

**Relative Vapor Density** 

Specific gravity 1.6 - 1.8

833 kg/m<sup>3</sup> (52 lb/ft3) **Bulk density** Water solubility Insoluble in water Solubility in other solvents No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Partition Coefficient** No information available

(n-octanol/water)

**Explosive properties** May form explosive mixtures with air

**Oxidizing properties** No information available

9.2 Other information

Pour point No information available Molecular weight No information available VOC content(%) No information available **Density and/or Relative 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

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 polymerization





Hazardous polymerization does not occur.

#### 10.4 Conditions to avoid

Protect from moisture. Avoid dust formation. Heat, flames and sparks.

# 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous decomposition products

See Section 5.2.

# 11. Toxicological Information

# 11.1 Information on toxicological effects

**Acute toxicity** 

**Product information**This product contains a small quantity of quartz, crystalline silica. Prolonged and repeated

exposure to concentrations of crystalline silica exceeding the workplace exposure limit

(WEL) may lead to chronic lung disease such as silicosis.

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

or prolonged inhalation of crystalline silica dust can cause delayed lung injury, and other

diseases, including silicosis and lung cancer.

Eye contact Dust contact with the eyes can lead to mechanical irritation.

**Skin contact** Contact with dust can cause mechanical irritation or drying of the skin.

**Ingestion** Ingestion may cause stomach discomfort.

Toxicology data for the components

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Humic acid, sodium salt	No data available	No data available	No data available
Crystalline silica (impurity)	No data available	No data available	No data available

Chemical Name	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Humic acid, sodium salt	No data available	No data available	No data available	No data available
Crystalline silica (impurity)	Group 1; Monograph 100C [2012] Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] Group 1; Monograph 68 [1997]	Carcinogen	Present	Known Human Carcinoger

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 Crystalline silica dust is listed by IARC in Group 1 as known to cause lung cancer in

humans, if inhaled.

**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 Inhalation. Skin contact. Eye contact.

Routes of entry Inhalation.

Specific target organ toxicity -

Single exposure

Not classified

Specific target organ toxicity -

Repeated exposure

Category 2.

Target organ effects Respiratory system.

Aspiration hazard Not applicable.

# 12. Ecological Information

# 12.1 Toxicity

# 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
Humic acid, sodium salt	No information available	No information available	No information available
Crystalline silica (impurity)	LC50 Danio rerio (zebra fish) : > 10000 mg/l 96h	EC50: > 1000 mg/l 72h	LC50 Daphnia manga (Water flea): > 10000 mg/l 24h

# 12.2 Persistence and degradability

No product level data available.

#### 12.3 Bioaccumulative potential

No product level data available.

# 12.4 Mobility

Insoluble in water.

# 12.5 Results of PBT and vPvB assessment

Not determined





# 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)

UN No. (MT/ANTT)

Not regulated

UN No. (TDG)

UN/ID No. (ADR/RID/ADN/ADG)

UN No. (IMDG/ANTAQ)

UN No. (ICAO/ANAC)

UN No. (DPC)

Not regulated

Not regulated

Not regulated

Not regulated

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)

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

#### 14.4 Packing group

DOT Packing group

ANTT Packing group

TDG Packing group

ADR/RID/ADN/ADG Packing group

IMDG/ANTAQ Packing group

ICAO/ANAC Packing group

DPC Packing group

Not regulated

# 14.5 Environmental hazard

Marine pollutant No

# 14.6 Special precautions

Not applicable



# International inventories

**USA (TSCA)** Complies Complies Canada (DSL) Complies **Philippines (PICCS)** Japan (ENCS) Does not comply China (IECSC) Complies Australia (AICS)

Korean (KECL) Complies New Zealand (NZIoC) 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.

## 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.

Chemical Name	SARA 302 / TPQs	SARA 313	CERCLA RQ
Humic acid, sodium salt	N/A	N/A	N/A
Crystalline silica (impurity)	N/A	N/A	N/A

#### California Proposition 65

# **WARNING**



This product can expose you to chemicals including those listed below, 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

Chemical Name	California Proposition 65
Crystalline silica (impurity) 14808-60-7	Carcinogen

Brazilian Regulations

**ANVISA** 

**Brazil Regulation** This SDS was prepared in accordance with Brazil law ABNT NBR 14725:2014

Not determined **Federal Police** Not determined Army Not determined

No information available MTE (NR 15)

# 16. Other Information





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**HMIS** classification

Health 1\*
Flammability 1
Physical hazard 0
PPE E

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

#### Disclaimer

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