SDS no. 12218 Version 5

Revision date 15/Mar/2016 Supersedes date 15/Mar/2013

# Safety Data Sheet TRUVIS<sup>+</sup>

# 1. Identification

# 1.1 Product identifier

Product name TRUVIS<sup>1</sup>
Product code 12218

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

**Recommended Use** Drilling fluid additive. Viscosifier.

Uses advised against Consumer use

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

# Supplier

M-İ L.L.C.

P.O.Box 42842 Houston, TX 77242 www.miswaco.slb.com Telephone: 1 281-561-1511

#### Prepared by

Global Regulatory Compliance - Chemicals (GRC - Chemicals), Bethicia Prasek

# 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

Carcinogenicity Category 1A

Environmental hazards Not classified

## **Physical Hazards**

Combustible dust

# 2.2 Label elements



#### **Hazard statements**

H350 - May cause cancer

May form combustible dust concentrations in air

# **Precautionary statements**

P201 - Obtain special instructions before use

P281 - Use personal protective equipment as required

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

#### Supplementary precautionary statements

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

P240 - Ground/bond container and receiving equipment

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

P243 - Take precautionary measures against static discharge

P501 - Dispose of contents/ container to an approved waste disposal plant

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

# 3. Composition/information on Ingredients

# 3.1 Substances

Not Applicable

#### 3.2 Mixtures

Component	CAS-No	Weight % - range
Alkyl quaternary ammonium bentonite	68153-30-0	60 - 100
Silica, crystalline, quartz	14808-60-7	1 - 5

#### 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 Drink 1 or 2 glasses of water. 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.

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

#### Main 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. Fire-fighting measures

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Fog, Alcohol Foam, CO2, Dry Chemical.

#### Extinguishing media which shall not be used for safety reasons

None known.

# 5.2 Special hazards arising from the substance or mixture

#### Unusual fire and explosion hazards

Dusts or fumes may form explosive mixtures in air.

## **Hazardous combustion products**

Silicon oxide, 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.

# 6. Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Avoid dust formation.

#### 6.2 Environmental precautions

Do not allow material to contaminate ground water system.

## **Environmental exposure controls**

No information available.

6.3 Methods and materials for containment and cleaning up

#### **Methods for containment**

Cover powder spill with plastic sheet or tarp to minimize spreading.

#### Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

## 6.4 Reference to other sections

No information available.

# 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling

Avoid breathing dust; if exposed to high dust concentration, leave area immediately. Avoid contact with skin, eyes and clothing.

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

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

Storage precautions Keep container/package tightly closed and in a well-ventilated place. Follow safe

warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

# 8. Exposure controls/personal protection

#### 8.1 Control parameters

Component Information

Component	ACGIH TLV	OSHA PEL
Alkyl quaternary ammonium bentonite	Not Determined	Not Determined
Silica, crystalline, quartz	0.025 mg/m <sup>3</sup>	see Table Z-3

Silica, crystalline, quartz

OSHA - Final PELs - Table Z-3 Mineral Dusts

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

# 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 measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

**Eye protection** Tightly fitting safety goggles.

**Hand protection** Neoprene, Nitrile.

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

**PMCC** 

particulate respirator.

Skin and body protection Wear suitable protective clothing and gloves.

Wash hands before breaks and immediately after handling the product, Remove and wash Hygiene measures

contaminated clothing before re-use.

# 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Physical state** Solid **Appearance** Opaque Color Off-white

Slight odor of fatty acid Odor

Odor threshold Not applicable

**Property** Values Remarks

Not applicable pН

pH@dilution

Melting/freezing point

Boiling point/range No information available

Flash point No information available

Evaporation rate (BuAc =1) No information available Not Applicable

Flammability (solid, gas)

Flammability Limits in Air

Upper flammability limit No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available

1.5 - 1.7 Specific gravity

**Bulk density** No information available

Water solubility Negligible

Solubility in other solvents No information available No information available **Autoignition temperature Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available No information available Log Pow

**Explosive properties** No information available **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** No information available

# 10. Stability and reactivity

10.1 Reactivity

No specific reactivity hazards associated with this product.

10.2 Chemical stability

Stable. Hazardous polymerization does not occur.

10.3 Possibility of Hazardous Reactions

Hazardous polymerization

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Silicon oxide. Carbon oxides (COx).

# 11. Toxicological information

# 11.1 Information on toxicological effects

**Acute toxicity** 

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** Repeated exposure may cause skin dryness or cracking.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl quaternary ammonium bentonite	No data available	No data available	No data available
Silica, crystalline, quartz	= 500 mg/kg ( Rat )	No data available	No data available

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA listed carcinogens	NTP
Alkyl quaternary ammonium	No data available	No data available	No data available	No data available
bentonite				

Silica, crystalline, quartz	Group 1; Monograph 100C [in preparation] Group 1; Monograph 68	A2 Suspected Human Carcinogen	Present	Known Human Carcinogen
	[1997] Monograph 100C [in preparation] (listed under Crystalline silica inhaled in			
	the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]			

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

Mutagenic effects No evidence of mutagenic properties.

Carcinogenicity Contains a known or suspected carcinogen. Crystalline silica dust is listed by IARC in

Group 1 as known to cause lung cancer in humans, if inhaled.

**Reproductive toxicity**No evidence of toxicity to reproduction.

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

Routes of exposure Skin contact. Inhalation. Eye 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.

# 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.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Alkyl quaternary ammonium bentonite 68153-30-0 ( 60 - 100 )	No information available	No information available	No information available
Silica, crystalline, quartz 14808-60-7 ( 1 - 5 )	No information available	No information available	No information available

# 12.2 Persistence and degradability

No product level data available.

12.3 Bioaccumulative potential

No product level data available.

#### 12.4 Mobility in soil

No information available.

# 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)
UN No. (TDG)
UN/ID No. (ADR/RID/ADN/ADG)
UN No. (IMDG)
UN No. (ICAO)

Not regulated
Not regulated
Not regulated

## 14.2 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
TDG Hazard class
ADR/RID/ADN/ADG Hazard class
IMDG Hazard class
ICAO Hazard class/division
Not regulated
Not regulated

#### 14.4 Packing group

DOT Packing group

TDG Packing group

ADR/RID/ADN/ADG Packing group

IMDG Packing group

ICAO Packing group

Not regulated

Not regulated

Not regulated

Not regulated

## 14.5 Environmental hazard

No

#### 14.6 Special precautions

Not Applicable

# 15. Regulatory information

#### International inventories

**USA (TSCA)** Complies Canada (DSL) Complies . Mexico (ÌNSQ) Does not Comply **European Union (EINECS and ELINCS)** Complies **Philippines (PICCS)** Complies Japan (ENCS) Does not Comply China (IECSC) Complies Australia (AICS) Complies Korean (KECL) Complies New Zealand (NZIoC) Complies

#### U.S. Federal and State Regulations

#### SARA 311/312 Hazard Categories

Delayed (chronic) health hazard. Fire Hazard (Combustible Dust)

Component	SARA 302 / TPQs	SARA 313	CERCLA RQ
Alkyl quaternary ammonium bentonite	N/A	N/A	N/A
Silica, crystalline, quartz	N/A	N/A	N/A

# **State Comments**

Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under U.S. Federal and State Regulations for the specific chemicals.

## Silica, crystalline, quartz

carcinogen

#### **Canadian Classification**

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

# 16. Other information

Supersedes date 15/Mar/2013

Revision date 15/Mar/2016

Version 5

**The following sections have been** All sections. Updated according to GHS/CLP. **revised** 

#### **HMIS** classification

Health	1*
Flammability	1
Physical hazard	0
PPE	Е

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

#### Disclaimer

The information contained herein is considered in good faith as reliable of the date issued and is based upon on measurements, tests or data derived from supplier's own study or furnished by others. In providing this SDS information, Supplier makes no express or implied warranties as to the information or product; merchantability or fitness of purpose; any express or implied warranty; or non-infringement of intellectual property rights; and supplier assumes no responsibility for any direct, special or consequential damages, results obtained, or the activities of others. To the maximum extent permitted by law, supplier's warranty obligations and buyer's sole remedies are as stated in separate agreement between the parties.