### **HALLIBURTON**

### SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## TEG, M3

Revision Date: 04-Jan-2011 Revision Number: 4

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name TEG, M3

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

Recommended Use Additive

Uses Advised Against No information available

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

Halliburton Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN

**United Kingdom** 

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

Emergency telephone §45	- (EC)1272/2008			
Europe	112			
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			
Spain	Poison Information Service (ES): +34 91 562 04 20			
United Kingdom	NHS Direct (UK): +44 0845 46 47			

### 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the R-phrases mentioned in this Section, see Section 16

Classification Not Classified

2. HAZARDS IDENTIFICATION

Risk Phrases None

Label Elements
Not classified

**Hazard Pictograms** 

Signal Word None

**Contains** 

SubstancesCAS NumberTriethylene glycol112-27-6

#### **Other Hazards**

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS						
Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Triethylene alycol	203-953-2	112-27-6	60 - 100%	Not applicable	Not applicable	No data available

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

### 4. FIRST AID MEASURES

**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. Remove

contaminated clothing and launder before reuse.

**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

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

No significant hazards expected.

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

Notes to Physician Treat symptomatically

### 5. FIREFIGHTING MEASURES

Extinguishing mediaó

**Suitable Extinguishing Media** 

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

Special hazards arising from the substance of mixture

#### **Special Exposure Hazards**

Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases.

#### Advice for firefighters

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

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

### 6. ACCIDENTAL RELEASE MEASURES

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

Use appropriate protective equipment. See Section 12 for additional information

#### **Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

### 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.

#### Reference to other sections

See Section 12 for additional information.

### 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Avoid contact with eyes, skin, or clothing. Wash hands after use. Avoid breathing vapors.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

### Conditions for safe storage, including any incompatibilities

Store in a cool well ventilated area. Keep container closed when not in use. Keep from freezing.

Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

out of parameters						
Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK	
Triethylene alycol	Not applicable	Not applicable	Not applicable	Not applicable	1000 mg/m <sup>3</sup>	

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Triethylene glycol	Not applicable				

Derived No Effect Level (DNEL)

**Predicted No Effect Concentration** 

(PNEC)

No information available. No information available.

Engineering Controls

**Exposure controls** 

Developed protective acreinment

Use in a well ventilated area.

Personal protective equipment

Respiratory Protection

Not normally needed. But if significant exposures are possible then the following respirator

is recommended:

Organic vapor respirator.

**Hand Protection** 

Impervious rubber gloves. Polyvinylchloride gloves. Neoprene gloves. Nitrile gloves.

Skin Protection

Rubber apron.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions

None known.

**Environmental Exposure Controls** 

No information available

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid Color: Clear colorless

Odor: Odorless Odor Threshold: No information available

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

Remarks/ Method

<del>pH:</del> 7.5

Melting Point/Range
No data available
Freezing Point/Range (C):
-4.3°C

**Boiling Point/Range** 286°C Flash Point 177°C

Closed cup

upper flammability limit 9.2% lower flammability limit 0.9% Evaporation rate 0.01

Vapor Pressure < 0.01 mmHg

Vapor Density 5.17 Specific Gravity 1.12

Water SolubilitySoluble in waterSolubility in other solventsNo data availablePartition coefficient: n-octanol/waterNo data available

Autoignition Temperature 371°C

Decomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

Other information

VOC Content (%) No data available

### 10. STABILITY AND REACTIVITY

Reactivity

Not applicable

**Chemical Stability** 

Stable

Possibility of Hazardous Reactions

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Strong acids. Strong oxidizers.

**Hazardous Decomposition Products** 

Hydrocarbons. Carbon monoxide and carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity** 

InhalationMay cause respiratory irritation.Eye ContactMay cause mild eye irritation.

**Skin Contact** Prolonged or repeated contact may cause slight skin irritation. **Ingestion** Large doses may cause nausea, vomiting and diarrhea.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Triethylene glycol	15000 mg/kg	22460 mg/kg	No data available

### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

### **Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Triethylene glycol	EC50: > 500 mg/l	LC50: 56200-63700 mg/L	No information available	EC50: > 10,000 mg/l
	(Selenastrum capricornutum)	(Pimephales promelas)		(Daphnia magna)

### Persistence and degradability

Biodegradable.

### **Bioaccumulative potential**

Bioaccumulation is unlikely

### **Mobility in soil**

No information available

### Results of PBT and vPvB assessment

No information available.

### Other adverse effects

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Method

**Contaminated Packaging** 

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

Follow all applicable national or local regulations.

### 14. TRANSPORT INFORMATION

#### IMDG/IMO

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Transport Hazard Class(es): Not applicable

RID

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Transport Hazard Class(es): Not applicable

**ADR** 

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

### IATA/ICAO

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Not applicable

### 14. TRANSPORT INFORMATION

Special Precautions for User None

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

### 15. REGULATORY INFORMATION

### 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
Canadian DSL Inventory
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.

### **Chemical Safety Assessment**

No information available

### 16. OTHER INFORMATION

### Full text of R-phrases referred to under Sections 2 and 3

None

#### Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 04-Jan-2011 Revision Note Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### **Disclaimer Statement**

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**End of Safety Data Sheet**