#### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: TORQ-TRIM® II

Revision Date: 20-Dec-2012

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Dangerous Goods according to the

criteria of ADG.

Manufacturer/Supplier Halliburton/Baroid Australia Pty. Ltd.

15 Marriott Road

Jandakot WA 6164 Australia

ACN Number: 009 000 775

Telephone Number: 61 (08) 9455 8300 Fax Number: 61 (08) 9455 5300

**Product Emergency Telephone** 

Australia: 08-64244950

Papua New Guinea: 05 1 281 575 5000

New Zealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

**Identification of Substances or Preparation** 

Product Trade Name: TORQ-TRIM® II

Synonyms: None
Chemical Family: Blend
UN Number: , UN1219

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:3[Y]E

Poisons Schedule: None Allocated Application: Lubricant

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS Number PERCENT Australia New Zealand ACGIH TLV-TWA

NOHSC WES

2. COMPOSITION/INFORMATION ON INGREDIENTS				
Isopropanol	67-63-0	30 - 60%	TWA: 400 ppm STEL: 500 ppm TWA: 200 ppm	
			TWA: 983 mg/m <sup>3</sup> STEL: 1230 mg/m <sup>3</sup> STEL: 400 ppm	
			STEL: 500 ppm TWA: 400 ppm	
			STEL: 1230 mg/m <sup>3</sup> TWA: 983 mg/m <sup>3</sup>	
Diethanolamine	111-42-2	5 - 10%	TWA: 3 ppm TWA: TWA: 3 ppm TWA: TWA: 1 mg/m <sup>3</sup>	
			13 mg/m <sup>3</sup> 13 mg/m <sup>3</sup>	

#### Non-Hazardous Substance to Total of 100%

## HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. May be harmful if swallowed. May be absorbed

through the skin. Repeated overexposure may cause liver and kidney effects.

Flammable.

**Risk Phrases** R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

3.1C Flammable Liquids - Medium hazard 6.3A Irritating to the skin 6.4A Irritating **HSNO Classification** 

to the eye 6.9B Harmful to human target organs or systems 9.1B Ecotoxic in the

aquatic environment

#### FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

In case of contact, immediately flush skin with plenty of soap and water for at least 15 Skin

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

In case of contact, or suspected contact, immediately flush eyes with plenty of water Eyes

for at least 15 minutes and get medical attention immediately after flushing.

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

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

Not Applicable **Notes to Physician** 

#### FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Carbon dioxide, dry chemical, foam.

Extinguishing media which must None known. not be used for safety reasons

**Special Exposure Hazards** 

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed

surfaces. Closed containers may explode in fire. Decomposition in fire may produce

toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Wear self-contained breathing apparatus in

enclosed areas.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

**Absorption** 

Isolate spill and stop leak where safe. Remove ignition sources and work with nonsparking tools. Contain spill with sand or other inert materials. Scoop up and

remove.

#### 7. HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse. Ground and bond containers

when transferring from one container to another.

Storage Information Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container

closed when not in use. Product has a shelf life of 60 months.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls**Use in a well ventilated area. Local exhaust ventilation should be used in areas

without good cross ventilation.

**Respiratory Protection** Organic vapor respirator.

In high concentrations, supplied air respirator or a self-contained breathing

apparatus.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

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

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Amber Odor: Alcohol

pH: 7-9 (1%1 IPA:3 H20)

 Specific Gravity @ 20 C (Water=1):
 0.89

 Density @ 20 C (kg/l):
 0.89

Bulk Density @ 20 C (kg/m³): Not Determined

Boiling Point/Range (C): 85 Freezing Point/Range (C): -21

Pour Point/Range (C): Not Determined

Flash Point/Range (C): 18
Flash Point Method: PMCC

Autoignition Temperature (C):

Flammability Limits in Air - Lower (g/m³):

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (g/m³):

Flammability Limits in Air - Upper (%):

Vapor Pressure @ 20 C (mmHg):

Not Determined

Not Determined

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density (Air=1):

Percent Volatiles:

Not Determined

Not Determined

Evaporation Rate (Butyl Acetate=1): 2.4

Solubility in Water (g/100ml): Partially soluble Solubility in Solvents (g/100ml): Not Determined VOCs (g/l): Not Determined

Viscosity, Dynamic @ 20 C (centipoise): 0.8

Viscosity, Kinematic @ 20 C (centistokes): Not Determined

Partition Coefficient/n-Octanol/Water: 2.48

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Hydrocarbons. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation.

Sympotoms related to exposure

Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** May cause skin irritation. May be absorbed through the skin and contribute to the

symptoms listed under ingestion. May cause skin defatting with prolonged exposure.

**Eye Contact** May cause eye irritation.

**Ingestion** May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and

central nervous system depression.

Aggravated Medical Conditions Skin disorders. Central nervous system disorders.

**Chronic Effects/Carcinogenicity** Repeated overexposure may cause liver and kidney effects.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability BOD(28 Day): 98% of COD

Bio-accumulation Not determined

## **Ecotoxicological Information**

Acute Fish Toxicity: TLM96: 1600-3200 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: TLM48: 16.07 mg/l (Acartia tonsa)
Acute Algae Toxicity: EC50: 24 mg/l (Skeletonema costatum)

Chemical Fate InformationNot determinedOther InformationNot applicable

## 13. DISPOSAL CONSIDERATIONS

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

**Contaminated Packaging** Follow all applicable national or local regulations.

# 14. TRANSPORT INFORMATION

#### **Land Transportation**

**ADR** 

UN1219, Isopropanol Solution, 3, II

## **Air Transportation**

ICAO/IATA

UN1219, Isopropanol Solution, 3, II

## Sea Transportation

**IMDG** 

UN1219, Isopropanol Solution, 3, II, (18.3 C) EmS F-E, S-D

## **Other Transportation Information**

Labels: Flammable Liquid

#### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

Australian AICS Inventory New Zealand Inventory of

Chemicals

US TSCA Inventory EINECS Inventory

All components listed on inventory or are exempt. All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

**Classification** F - Highly Flammable.

Xi - Irritant.

**Risk Phrases** R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Safety Phrases S2 Keep out of reach of children.

S16 Keep away from sources of ignition - No Smoking.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S37 Wear suitable gloves.

S24/25 Avoid contact with skin and eyes.

## 16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS Not applicable

#### **Contact**

**Australian Poisons Information Centre** 

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

**New Zealand National Poisons Centre** 

0800 764 766

**Additional Information** For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Compliance at 1-580-251-4335.

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or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of

the user.

\*\*\*END OF MSDS\*\*\*