HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: ISOPROPYL ALCOHOL

Revision Date: 19-Apr-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 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

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

Identification of Substances or Preparation

Product Trade Name: ISOPROPYL ALCOHOL

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

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:2[Y]E

Poisons Schedule: None Allocated

Application: Solvent

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

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COMPOSITION/INFORMATION ON INGREDIENTS 60 - 100% Isopropanol TWA: 400 ppm STEL: 500 ppm TWA: 200 ppm TWA: 983 mg/m³ STEL: 1230 mg/m³ STEL: 400 ppm STEL: 500 ppm TWA: 400 ppm STEL: 1230 mg/m³ TWA: 983 mg/m³

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 absorbed through the skin. May be

harmful if swallowed. Flammable.

R11 Highly flammable. Risk Phrases

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

Not Determined **HSNO Classification**

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.

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

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.

Notes to Physician Not Applicable

FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

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.

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.

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Procedure for Cleaning / Absorption

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking 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 24 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering ControlsUse 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: Colorless
Odor: Alcohol

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 0.8

Density @ 20 C (kg/l): 0.798

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

Boiling Point/Range (C): 80

Freezing Point/Range (C):

Pour Point/Range (C):

Not Determined

Not Determined

Flash Point/Range (C):

Flash Point Method: Not Determined

Autoignition Temperature (C): 398

Flammability Limits in Air - Lower (g/m³): Not Determined

Flammability Limits in Air - Lower (%): 2

Flammability Limits in Air - Upper (g/m³): Not Determined

Flammability Limits in Air - Upper (%): 12 Vapor Pressure @ 20 C (mmHg): 34

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Not Determined

Not Determined

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9. PHYSICAL AND CHEMICAL PROPERTIES

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Molecular Weight (g/mole):

Decomposition Temperature (C):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

Carbon monoxide and carbon dioxide.

60.1

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 produce effects

similar to those caused by inhalation and/or ingestion.

Eye Contact May cause eye irritation.

Ingestion Irritation of the mouth, throat, and stomach. May cause central nervous system

depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech,

giddiness, tremors and convulsions. May cause kidney damage.

Aggravated Medical Conditions None known.

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

Other Information None known.

Toxicity Tests

Oral Toxicity: LD50: 5840 mg/kg (Rat)

Dermal Toxicity: Not determined
Inhalation Toxicity: Not determined
Primary Irritation Effect: Not determined
Carcinogenicity Not determined

Genotoxicity: Not determined

ISOPROPYL ALCOHOL Page 4 of 6 Reproductive / Developmental Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Resistant

Bio-accumulation Not determined

Ecotoxicological Information

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate InformationNot determinedOther InformationNot applicable

13. DISPOSAL CONSIDERATIONS

Disposal MethodDisposal 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, (11.7 C) EmS F-E, S-D

Other Transportation Information

Labels: Flammable Liquid

15. REGULATORY INFORMATION

Chemical Inventories

Australian AICS Inventory All components listed on inventory or are exempt.

ISOPROPYL ALCOHOL Page 5 of 6 **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.

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.

S7 Keep container tightly closed.

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.

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