HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: PARAGON 1 SOLVENT

Revision Date: 11-Aug-2014

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: PARAGON 1 SOLVENT

Synonyms: None

Chemical Family: Organic hydrocarbon

UN Number: UN2319
Dangerous Goods Class: 3

Subsidiary Risk: None Hazchem Code: 3[Y]

Poisons Schedule: None Allocated

Application: Solvent

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. HAZARDS IDENTIFICATION

Hazard Overview May cause eye and skin irritation. May cause allergic skin reaction. Aspiration into

the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. Combustible

Classification Xn - Harmful.

Risk Phrases R10 Flammable.

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R65 Harmful: may cause lung damage if swallowed.

R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases S2 Keep out of reach of children.

S24 Avoid contact with skin.

S37 Wear suitable gloves.

HSNO Classification Not Determined

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w	v) Australia NOHS	ACGIH TLV-TWA	
		-		WES	
Terpene hydrocarbon	68956-56-9	60 - 100%	Not applicable	Not applicable	Not applicable
by-products					

Non-Hazardous Substance to Total of 100%

4. 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 Wash with soap and water. Get medical attention if irritation persists.

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

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

Ingestion Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam.

Extinguishing media which must not be used for safety reasons

None known.

Special Exposure Hazards Decomposition in fire may produce toxic gases. Use water spray to cool fire

exposed surfaces. Closed containers may explode in fire.

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 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 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.

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

excessive heat. Store in a cool, dry location. Store in a well ventilated area.

Product has a shelf life of 24 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 If engineering controls and work practices cannot keep exposure below

occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or

other qualified professional.

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

respirator is recommended:

In high concentrations, supplied air respirator or a self-contained breathing apparatus. Organic vapor respirator with a dust/mist filter. (A2P2/P3)

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: White to light straw

 Odor:
 Turpentine

 pH:
 Not Determined

 Specific Gravity @ 20 C (Water=1):
 0.85 - 0.87

 Density @ 20 C (kg/l):
 0.848

Bulk Density @ 20 C (kg/M3): Not Determined

Boiling Point/Range (C): Not Determined Min: > 157

Freezing Point/Range (C): -15

Pour Point/Range (C): Not Determined

Flash Point/Range (C): 47
Flash Point Method: CC

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

Flammability Limits in Air - Lower (%):

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

Not Determined
Not Determined
Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1): Not Determined

Percent Volatiles: 9

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Insoluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

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. Avoid contact with acids.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

Hazardous Decomposition

Products

Oxides of sulfur. 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

Acute Toxicity

Inhalation Excessive inhalation causes headache, dizziness, nausea and incoordination.

Eye Contact May cause eye irritation

Skin Contact May cause skin defatting with prolonged exposure. May cause skin irritation. May cause an

allergic skin reaction.

Ingestion Irritation of the mouth, throat, and stomach. May cause headache, dizziness, nausea,

vomiting, gastrointestinal irritation and central nervous system depression. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing,

wheezing, coughing up blood and pneumonia, which can be fatal.

Chronic Effects/Carcinogenicity Repeated excessive ingestion may cause central nervous system effects. Prolonged or

repeated exposure may cause liver, kidney and lung effects.

Toxicology data for the components

Toxicology data for the compensate								
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation				
Terpene hydrocarbon	68956-56-9	No data available	No data available	No data available				
by-products								

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

Ecotoxicity Product

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

Ecotoxicity Substance

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Terpene hydrocarbon by-products	68956-56-9	No information available	TLM96: 550 mg/l (Pimephales promelas)	No information available	No information available

12.2. Persistence and degradability

No information available

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

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

Australia Dangerous Goods

UN Number: UN2319

UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.

Transport Hazard Class(es): 3
Packing Group: |||

IMDG/IMO

UN Number: UN2319

UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.

Transport Hazard Class(es): 3
Packing Group: |||

Environmental Hazards: Not applicable EmS F-E, S-D

IATA/ICAO

UN Number: UN2319

UN Proper Shipping Name: Terpene Hydrocarbons, N.O.S.

Transport Hazard Class(es): 3
Packing Group:

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

Chemical Inventories

Australian AICS Inventory New Zealand Inventory of

Chemicals

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

US TSCA Inventory All components listed on inventory or are exempt.

EINECS Inventory This product, and all its components, complies with EINECS

Classification Xn - Harmful.

Risk Phrases R10 Flammable.

R38 Irritating to skin.

R43 May cause sensitization by skin contact. R65 Harmful: may cause lung damage if swallowed.

R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases S2 Keep out of reach of children.

S24 Avoid contact with skin.S37 Wear suitable gloves.

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.

Disclaimer StatementThis information is furnished without warranty, expressed or implied, as to

accuracy 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