HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: Hydrocarbon Phase

Revision Date: 05-May-2009

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Non-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: Hydrocarbon Phase

Synonyms: None

Chemical Family: Aromatic hydrocarbon

UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code: None Allocated

Poisons Schedule: S6
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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2. COMPOSITION/INFORMATION ON INGREDIENTS					
n-Methylpyrrolidone	872-50-4	10 - 30%	TWA: 25 ppm TWA: 103 mg/m ³ STEL: 75 ppm STEL: 309 mg/m ³	STEL: 75 ppm STEL: 309 mg/m ³ TWA: 25 ppm TWA: 103 mg/m ³	Not applicable
Terpene hydrocarbon by- products	68956-56-9	10 - 30%	Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	5 - 10%	TWA: 10 ppm TWA: 52 mg/m ³ STEL: 15 ppm STEL: 79 mg/m ³	STEL: 15 ppm STEL: 79 mg/m ³ TWA: 10 ppm TWA: 52 mg/m ³	TWA: 10 ppm STEL: 15 ppm
1,2,4 Trimethylbenzene	95-63-6	1 - 5%	TWA: 25 ppm TWA: 123 mg/m ³	TWA: 25 ppm TWA: 123 mg/m ³	25 ppm
Heavy aromatic petroleum naphtha	64742-94-5	60 - 100%	Not applicable	Not applicable	Not applicable

Non-Hazardous Substance to Total of 100%

HAZARDS IDENTIFICATION

Hazard Overview May cause headache, dizziness, and other central nervous system effects. May be

harmful if swallowed. Potential carcinogen. May cause lung damage if swallowed. Combustible. May cause severe eye irritation. May cause skin and respiratory

irritation.

Risk Phrases R65 Harmful: may cause lung damage if swallowed.

R36/38 Irritating to eyes and skin.

HSNO Classification Not Determined

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. 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.

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

aspiration.

Notes to Physician Not Applicable

FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical, foam.

not be used for safety reasons

Extinguishing media which must Avoid spraying water directly into storage containers due to danger of boilover.

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Avoid spraying water directly into storage containers due to danger of boilover. Decomposition in fire may produce toxic gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

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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.

Procedure for Cleaning /

Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse.

Storage Information Store away from oxidizers. Store in a cool well ventilated area. Keep container

closed when not in use. Keep from heat, sparks, and open flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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, 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.

Organic vapor respirator with a dust/mist filter. (A2P2/P3)

Hand Protection Impervious rubber gloves.

Rubber apron. **Skin Protection**

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

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

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Amber

Odor: Sweet aromatic

pH: 7 Specific Gravity @ 20 C (Water=1): 0.9 Density @ 20 C (kg/l): 0.9

Bulk Density @ 20 C (kg/m³): Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (C): Not Determined Pour Point/Range (C): Not Determined

Flash Point/Range (C): 63 Flash Point Method: **TCC Autoignition Temperature (C):** 550

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flammability Limits in Air - Lower (%):

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

Flammability Limits in Air - Upper (%):

Vapor Pressure @ 20 C (mmHg):Not DeterminedVapor Density (Air=1):Not DeterminedPercent Volatiles:Not DeterminedEvaporation Rate (Butyl Acetate=1):Not DeterminedSolubility 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:

Mot Determined

Not Determined

Not Determined

Not Determined

Not Determined

Decomposition Temperature (C): > 210

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. Oxides of nitrogen. Oxides of sulfur.

Additional Guidelines Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

Sympotoms related to exposure

Inhalation May cause central nervous system depression including headache, dizziness,

drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness.

May cause respiratory irritation.

Skin Contact May cause skin irritation.

Eye Contact May cause severe eye irritation.

Ingestion Aspiration into the lungs may cause chemical pneumonitis including coughing,

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

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.

Aggravated Medical Conditions Eye ailments. Skin disorders.

Chronic Effects/Carcinogenicity

The International Agency for Research on Cancer (IARC) has evaluated naphthalene and determined it to be a possible carcinogen to humans (Group 2B, based on sufficient evidence in experimental animals and inadequate evidence in humans). Repeated excessive ingestion may cause central nervous system effects. Prolonged or repeated exposure may cause liver, kidney and lung effects. Prolonged or

repeated exposure may cause embryo and fetus toxicity.

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 /

Developmental Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

Ecotoxicological Information

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

Chemical Fate Information Not determined

Other Information Not 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

Not restricted

Air Transportation

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ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Transportation Information

Labels: None

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.

This product does not comply with NZIOC

All components listed on inventory or are exempt. This product, and all its components, complies with EINECS

Xn - Harmful. Classification

Risk Phrases R65 Harmful: may cause lung damage if swallowed.

R36/38 Irritating to eyes and skin.

Safety Phrases S2 Keep out of reach of children.

S23 Do not breathe gas, fumes, vapour or spray.

S24 Avoid contact with skin. S37 Wear suitable gloves.

S41 In case of fire and/or explosion do not breathe fumes.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and

show this container or label.

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

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

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Disclaimer Statement

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END OF MSDS