HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: PERCUSSION PRIMER ASSEMBLY

Revision Date: 27-Mar-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: PERCUSSION PRIMER ASSEMBLY

Synonyms: None
Chemical Family: Explosive
UN Number: , UN0044
Dangerous Goods Class: 1.4S
Subsidiary Risk: None
Hazchem Code: 2W

Poisons Schedule: None Allocated Application: Explosive Charge

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT		New Zealand WES	ACGIH TLV-TWA
Potassium perchlorate	7778-74-7	Unknown	Not applicable	Not applicable	Not applicable
Titanium	7440-32-6	Unknown	Not applicable	Not applicable	Not applicable

COMPOSITION/INFORMATION ON INGREDIENTS

Silica, amorphous Unknown TWA: 2 mg/m³ Not applicable 2 mg/m^3

Non-Hazardous Substance to Total of 100%

HAZARDS IDENTIFICATION

Hazard Overview Explosive. May cause eye, skin, and respiratory irritation. May effect the blood's

ability to carry oxygen. May be harmful if swallowed.

R9 Explosive when mixed with combustible material. Risk Phrases

R22 Harmful if swallowed.

HSNO Classification 5.1.1B Oxidising Substances - Liquids or Solids 6.1D Acutely Toxic Substances

> 6.3B Mildly irritating to the skin 6.4A Irritating to the eye 6.8C Produce toxic human reproductive or developmental effects on or via lactation 6.9A Toxic to human target organs or systems 9.1B Ecotoxic in the aquatic environment 9.2B Ecotoxic in the

soil environment 9.3C Harmful to terrestrial vertebrates

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. Destroy or properly dispose of contaminated shoes.

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 Treat symptomatically.

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

Flammable solid, may detonate under adverse conditions. Oxidizer. May ignite Special Exposure Hazards

combustibles. Sprinkler and/or deluge systems recommended for bulk storage

areas.

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. Use only competent persons for cleanup.

Environmental Precautionary

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning / Absorption

Isolate area and remove sources of friction, impact, heat, low level electrical current,

and RF energy. Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions Do NOT consume food, drink, or tobacco in contaminated areas. Avoid contact with

eyes, skin, or clothing. Avoid creating or inhaling dust. Wash hands after use.

Launder contaminated clothing before reuse.

Storage Information Keep away from friction, impact, and heat. Store away from combustibles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use in a well ventilated area.

Respiratory Protection Dust/mist respirator. (N95, P2/P3)

Hand Protection Cloth gloves.

Skin Protection Cotton coveralls, undergarments, and socks. Conductive soled shoes. Anti-static

clothing.

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: Solid

Color:Gray to blackOdor:OdorlesspH:Not Determined

Specific Gravity @ 20 C (Water=1): Not Determined Density @ 20 C (kg/l): Not Determined 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): Not Determined Flash Point Method: Not Determined

Autoignition Temperature (C): 204

Flammability Limits in Air - Lower (g/m³): Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (g/m³): Not Determined Flammability Limits in Air - Upper (%): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined Insoluble

Solubility in Water (g/100ml): Insoluble
Solubility in Solvents (g/100ml): Not Determined

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 May detonate with friction, impact, heat, and low level electrical current.

Incompatibility (Materials to

Avoid)

Strong alkalis. Strong acids. Combustible materials. Organic matter. Reducing

agents.

Hazardous Decomposition

Products

Carbon monoxide and carbon dioxide. Chlorine.

Additional Guidelines Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation. All explosives are dangerous and must be handles

carefully and used following approved safety procedures under the direction of competent, experience persons in accordance with all applicable regulations and

ordinances.

Sympotoms related to exposure

Inhalation

May cause respiratory irritation. May cause blood disorders including prolonged

weakness and fatigue.

Skin Contact May cause skin irritation.

Eye Contact May cause eye irritation.

Ingestion May reduce the blood's ability to transport oxygen (methemalobinemia).

Aggravated Medical Conditions Blood disorders. Eye ailments.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are

chronic health hazards.

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 applicable

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

UN0044, Primers, Cap Type, 1.4S, II EX-9703143

Air Transportation

ICAO/IATA

UN0044, Primers, Cap Type, 1.4S, II EX-9703143

Sea Transportation

IMDG

UN0044,Primers, Cap Type, 1.4S, II EX-9703143 EmS F-B, S-X

Other Transportation Information

Labels: Explosive 1.4S

15. REGULATORY INFORMATION

Chemical Inventories

Australian AICS Inventory
New Zealand Inventory of

All components listed on inventory or are exempt.
This product does not comply with NZIOC

Chemicals

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

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

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Classification O - Oxidizing.

Xn - Harmful.

Risk Phrases R9 Explosive when mixed with combustible material.

R22 Harmful if swallowed.

Safety Phrases S2 Keep out of reach of children.

S13 Keep away from food, drink, and animal feeding stuffs.

S22 Do not breathe dust.

S27 Immediately take off all contaminated clothing.

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