### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: CORE GUN LOAD ASSEMBLY HIGH TEMP

Revision Date: 03-Jan-2013

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: CORE GUN LOAD ASSEMBLY HIGH TEMP

Synonyms: LOAD, ASSEMBLY, CORE, GUN, HI TEMP, 400 CRTG - 100004192

LOAD, ASSEMBLY, CORE, GUN, HI TEMP, 450 CRTG - 100004186 LOAD, ASSEMBLY, CORE, GUN, HI TEMP, 500 CRTG - 100004187 LOAD, ASSEMBLY, CORE, GUN, HI TEMP, 550 CRTG, OIL - 100071883 LOAD, ASSEMBLY, CORE, GUN, HI TEMP, 600 CRTG, OIL - 100142073

Chemical Family: Explosive
UN Number: , UN0278
Dangerous Goods Class: 1.4C
Subsidiary Risk: None
Hazchem Code: 2[Y]E

Poisons Schedule: None Allocated Application: Explosive Charge

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

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### **COMPOSITION/INFORMATION ON INGREDIENTS**

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand WES	ACGIH TLV-TWA
Ammonium perchlorate	7790-98-9	77	Not applicable	Not applicable	Not applicable
Iron oxide	1309-37-1	3	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Aluminum	7429-90-5	20	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

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

### HAZARDS IDENTIFICATION

Explosive. May cause eye, skin, and respiratory irritation. May be harmful if **Hazard Overview** 

swallowed. Oxidizer.

**Risk Phrases** R9 Explosive when mixed with combustible material.

R22 Harmful if swallowed.

**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.

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

None. Contains both oxidizer and fuel and cannot be readily extinguished. Fire Suitable Extinguishing Media

fighting should be limited to preventing the spread of other fires.

Extinguishing media which must None known.

not be used for safety reasons

**Special Exposure Hazards** Oxidizer. May ignite combustibles. Delayed devices which may cook-off several

hours after fire is out. Delayed column cannot be extinguished externally. 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.

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Procedure for Cleaning /

**Absorption** 

Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Remove ignition sources and work with non-sparking tools. Scoop

up and remove.

# HANDLING AND STORAGE

**Handling Precautions** Only allow trained personnel to handle product.

Keep away from friction, impact, and heat. Observe storage compatibility groups and **Storage Information** 

Not Determined

explosive limits.

### **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.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

**Other Precautions** Handle remotely when possible.

### PHYSICAL AND CHEMICAL PROPERTIES

Solid **Physical State:** Color: Metallic Odor: Odorless pH:

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

Solubility in Solvents (g/100ml): Not Determined VOCs (q/I): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined Not Determined Molecular Weight (g/mole): Not Determined **Decomposition Temperature (C):** 

### 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 oxidizers. Strong acids.

**Hazardous Decomposition** 

**Products** 

Shrapnel. Toxic fumes. Carbon monoxide and carbon dioxide. Oxides of nitrogen.

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation. Product does not present exposures health hazards

during normal handling and use. However, this product is an explosive material and uncontrolled detonation may cause severe physical injury including death. 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 central nervous system depression including headache, dizziness,

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

unconsciousness.

Nitrogen oxides generated during use are irritating to the respiratory system.

**Skin Contact** May be absorbed through the skin and contribute to the symptoms listed under

ingestion. Nitrogen oxides generated during use are skin irritants.

**Eye Contact** May cause eye irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea.

Aggravated Medical Conditions None known.

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 /

Not determined

**Developmental Toxicity:** 

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# 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 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**

UN0278, Cartridges, Oil Well, 1.4C, II EX-1985070014 EX-1985070015 EX-1985070016 EX-1985070017 EX-1985070018

### **Air Transportation**

#### ICAO/IATA

UN0278, Cartridges, Oil Well, 1.4C, II EX-1985070014 EX-1985070015 EX-1985070016 EX-1985070017 EX-1985070018

#### Sea Transportation

#### **IMDG**

UN0278,Cartridges, Oil Well, 1.4C, II EX-1985070014 EX-1985070015 EX-1985070016 EX-1985070017 EX-1985070018 EmS F-B, S-X

### Other Transportation Information

Labels: Explosive 1.4C

### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

CORE GUN LOAD ASSEMBLY HIGH TEMP Page 5 of 6 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

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.

S16 Keep away from sources of ignition - No Smoking.S33 Take precautionary measures against static discharges.

S34 Avoid shock and friction.

### 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 Statement** This 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\*\*\*