HALLIBURTON

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

RED III IGNITER

Revision Date: 28-Mar-2011 Revision Number: 6

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name RED III IGNITER

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Igniter

Uses Advised Against No information available

Details of the supplier of the safety data sheet

Halliburton Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN

United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

Emergency telephone number

+44 1224 795277 or +1 281 575 5000

+44 1224 795277 01 +	1 261 373 3000		
Emergency telephone §45	- (EC)1272/2008		
Europe	112		
Denmark	Poison Control Hotline (DK): +45 82 12 12 12		
France	ORFILA (FR): + 01 45 42 59 59		
Germany	Poison Center Berlin (DE): +49 030 30686 790		
Italy	Poison Center, Milan (IT): +39 02 6610 1029		
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)		
Norway	Poisons Information (NO):+ 47 22 591300		
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97		
Spain	Poison Information Service (ES): +34 91 562 04 20		
United Kingdom	NHS Direct (UK): +44 0845 46 47		

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Explosives.	Division 1.4- H204
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

2. HAZARDS IDENTIFICATION

Classification

Ε - Explosive.

Risk Phrases

R2 Risk of explosion by shock, fire, friction, or other sources of ignition.

Label Elements

Hazard Pictograms





Signal Word

Warning

Hazard Statements

H204 - Fire or projection hazard

Contains

Substances CAS Number

Black powder (consisting of 70-76% Potassium nitrate (7757-79- Mixture 1); 8-18% Charcoal; 9-20% Sulfur (7704-34-9); and trace amounts of Graphite (7782-42-5)

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P240 - Ground/Bond container and receiving equipment

P250 - Do not subject to grinding/shock/friction

P370 + P380 - In case of fire: Evacuate area

P372 - Explosion risk in case of fire

P373 - DO NOT fight fire when fire reaches explosives

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Black powder (consisting of 70-76% Potassium nitrate (7757-79-1); 8-18% Charcoal; 9-20% Sulfur (7704-34-9); and trace amounts of Graphite (7782-42-5)	Not applicable	Mixture	1 - 10	E; R2	Expl. 1.4 (H204)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures

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4. FIRST AID MEASURES

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably Inhalation

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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

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

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

Skin

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

Most Important symptoms and effects, both acute and delayed

May cause skin and respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIREFIGHTING MEASURES

Extinguishing mediaó

Suitable Extinguishing Media

Do NOT fight fire. Isolate area and evacuate personnel to a safe area. Guard against intruders. Allow fire to burn itself out.

Extinguishing media which must not be used for safety reasons

None known.

Special hazards arising from the substance of mixture

Special Exposure Hazards

May detonate with impact or on heating. May explode and throw fragments 1 mile or more in fire. Evacuate all persons, including emergency responders.

Advice for firefighters

Special Protective Equipment for Fire-Fighters

Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Use only competent persons for cleanup.

See Section 12 for additional information

Environmental precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

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.

Reference to other sections

See Section 12 for additional information.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Do NOT consume food, drink, or tobacco in contaminated areas. Wash hands after use. Launder contaminated clothing before reuse.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Store only in ATF approved magazines. Keep away from friction, impact, and heat.

Specific End Use(s)

Exposure Scenario No information available **Other Guidelines** No information available

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Black powder (consisting of 70-76% Potassium nitrate (7757-79-1); 8-18% Charcoal; 9-20% Sulfur (7704-34-9); and	Not applicable				
trace amounts of Graphite (7782-42-5)					

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Black powder (consisting	Not applicable				
of 70-76% Potassium					
nitrate (7757-79-1); 8-					
18% Charcoal; 9-20%					
Sulfur (7704-34-9); and					
trace amounts of					
Graphite (7782-42-5)					

Derived No Effect Level (DNEL) Predicted No Effect Concentration No information available. No information available.

(PNEC)

Exposure controls

Use in a well ventilated area. **Engineering Controls**

Personal protective equipment

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

Hand Protection Cloth gloves.

Cotton coveralls, undergarments, and socks. Conductive soled shoes. **Skin Protection**

Eve Protection Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

Environmental Exposure Controls No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Values

No data available

No data available

Information on basic physical and chemical properties

Physical State: Solid Color: Metallic

Odor Threshold: No information available Odor: Odorless

Property Remarks/ Method

pH: Melting Point/Range Freezing Point/Range (C): Boiling Point/Range Flash Point

No data available No data available No data available **Evaporation rate** No data available **Vapor Pressure** No data available Vapor Density No data available **Specific Gravity** No data available Insoluble in water Water Solubility Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available

Viscosity No data available No information available **Explosive Properties Oxidizing Properties** No information available

Other information

VOC Content (%) No data available

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10. STABILITY AND REACTIVITY

Reactivity

Not applicable

Chemical Stability

Stable

Possibility of Hazardous Reactions

Will Not Occur

Conditions to Avoid

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

Incompatible Materials

Strong acids. Strong alkalis.

Hazardous Decomposition Products

Shrapnel. Oxides of nitrogen. Oxides of sulfur. Metal oxides. Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

InhalationMay cause respiratory irritation.Eye ContactMay cause eye irritation.Skin ContactMay cause skin irritation.

Ingestion May cause abdominal pain, vomiting, nausea, and diarrhea.

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

are chronic health hazards.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Black powder (consisting of 70-	No data available	No data available	No data available
76% Potassium nitrate (7757-			
79-1); 8-18% Charcoal; 9-20%			
Sulfur (7704-34-9); and trace			
amounts of Graphite (7782-42-			
5)			

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity Effects

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Black powder (consisting of 70-76% Potassium nitrate (7757-79-1); 8-18% Charcoal; 9-20% Sulfur (7704-34-9); and trace amounts of Graphite (7782-42-5)	No information available	No information available	No information available	No information available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

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Mobility in soil

No information available

Results of PBT and vPvB assessment

No information available.

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal MethodDisposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Do NOT reuse container. Store only in ATF approved magazines.

14. TRANSPORT INFORMATION

IMDG/IMO

UN Number: UN0325, UN Proper Shipping Name: Igniters Transport Hazard Class(es): , 1.4G Packing Group: , II

EMS: EmS F-B, S-X

RID

UN Number: UN0325, UN Proper Shipping Name: Igniters Transport Hazard Class(es): , 1.4G Packing Group: , II

ADR

UN Number: UN0325, UN Proper Shipping Name: Igniters Transport Hazard Class(es): , 1.4G Packing Group: , II

IATA/ICAO

UN Number: UN0325, UN Proper Shipping Name: Igniters Transport Hazard Class(es): , 1.4G Packing Group: , II

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

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

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

Canadian DSL Inventory All components listed on inventory or are exempt.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering Classes (WGK)

Not determined.

Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under Sections 2 and 3

R2 Risk of explosion by shock, fire, friction, or other sources of ignition.

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 28-Mar-2011
Revision Note Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer Statement

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End of Safety Data Sheet