

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

IGNITER PIPE RECOVERY

Revision Date: 04-Jan-2011

Revision Number: 5

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

Product Identifier**Product Name**

IGNITER PIPE RECOVERY

Synonyms:

IGNITER ASSEMBLY, CORE GUN IGNITERS, 50 OHM - 197406

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

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

Classification according to EU Directives 67/548/EEC or 1999/45/EC

2. HAZARDS IDENTIFICATION

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

Classification E - 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 (7757-79-1); 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	100%	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**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.

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.

Skin

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

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 media**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 or 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

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 trace amounts of Graphite (7782-42-5))	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
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	Not applicable	Not applicable	Not applicable	Not applicable

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

Exposure controls

Engineering Controls

Use in a well ventilated area.

Personal protective equipment

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

None known.

Environmental Exposure Controls

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Solid

Color: Metallic

Odor: Odorless

Odor Threshold: No information available

Property

Values

Remarks/ Method

pH:

No data available

Melting Point/Range

No data available

Freezing Point/Range (C):

No data available

Boiling Point/Range

No data available

Flash Point

No data available

Evaporation rate

No data available

Vapor Pressure

No data available

Vapor Density

No data available

Specific Gravity

No data available

Water Solubility

Insoluble in water

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

Explosive Properties

No information available

Oxidizing Properties

No information available

Other information

9. PHYSICAL AND CHEMICAL PROPERTIES

VOC Content (%)

No data available

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 alkalis. Strong acids.

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****Inhalation**

May cause respiratory irritation.

Eye Contact

May cause eye irritation.

Skin Contact

May 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 70-76% Potassium nitrate (7757-79-1); 8-18% Charcoal; 9-20% Sulfur (7704-34-9); and trace amounts of Graphite (7782-42-5))	No data available	No data available	No data available

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

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 Method****Contaminated Packaging**Disposal should be made in accordance with federal, state, and local regulations.
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****US TSCA Inventory****Canadian DSL Inventory**

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

Legend**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**DSL/NDL** - 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 datawww.ChemADVISOR.com/**Revision Date:**

04-Jan-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