

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## MDF ASSEMBLY

Revision Date: 20-Dec-2012

Revision Number: 9

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

**Product Identifier****Product Name**

MDF ASSEMBLY

**Synonyms:**

MILD DET FUSE ASSY, 1.375 IN, DCST-A, S274.5 - 100118417

**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use**

Explosive Charge

**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](http://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**

<b>Europe</b>	<b>112</b>
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): +47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>United Kingdom</b>	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**

#### **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  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
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

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

No information available

### Indication of any immediate medical attention and special treatment needed

#### 4. FIRST AID MEASURES

**Notes to Physician**

Treat symptomatically

#### 5. FIREFIGHTING MEASURES

**Extinguishing media****Suitable Extinguishing Media**

All standard fire fighting 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**

Do NOT consume food, drink, or tobacco in contaminated areas. Avoid contact with eyes, skin, or clothing. 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****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.

<b>Skin Protection</b>	Cotton coveralls, undergarments, and socks. Conductive soled shoes.
<b>Eye Protection</b>	Wear safety glasses or goggles to protect against exposure.
<b>Other Precautions</b>	None known.
<b>Environmental Exposure Controls</b>	No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State:</b>	Solid	<b>Color:</b>	Metallic
<b>Odor:</b>	Odorless	<b>Odor Threshold:</b>	No information available

<u>Property</u>	<u>Values</u>
<u>Remarks/ Method</u>	
<b>pH:</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Freezing Point/Range (C):</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	No data available
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

### Other information

<b>VOC Content (%)</b>	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. Metal oxides. Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

<b>Inhalation</b>	May cause effects to the blood and blood system. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. May cause damage to the nervous, urinary, and reproductive systems. Nitrogen oxides generated during use are irritating to the respiratory system.
<b>Eye Contact</b>	May cause eye irritation.
<b>Skin Contact</b>	May be absorbed through the skin and contribute to the symptoms listed under ingestion. Nitrogen oxides generated during use are skin irritants. May cause an allergic skin reaction.
<b>Ingestion</b>	May cause abdominal pain, vomiting, nausea, and diarrhea.

**11. TOXICOLOGICAL INFORMATION**

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may cause blood forming system, nervous, urinary tract and reproductive system damage. Prolonged or repeated exposure may cause embryo and fetus toxicity.

**12. ECOLOGICAL INFORMATION****Toxicity****Ecotoxicity Effects****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:** UN0367,  
**UN Proper Shipping Name:** Fuze, Detonating  
**Transport Hazard Class(es):** , 1.4S  
**Packing Group:** , II  
**EMS:** EmS F-B, S-X

**RID**

**UN Number:** UN0367,  
**UN Proper Shipping Name:** Fuze, Detonating  
**Transport Hazard Class(es):** , 1.4S  
**Packing Group:** , II

**ADR**

**UN Number:** UN0367,  
**UN Proper Shipping Name:** Fuze, Detonating  
**Transport Hazard Class(es):** , 1.4S  
**Packing Group:** , II

**14. TRANSPORT INFORMATION****IATA/ICAO**

UN Number: UN0367,  
UN Proper Shipping Name: Fuze, Detonating  
Transport Hazard Class(es): , 1.4S  
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 Product contains one or more components not listed on the inventory.

**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 data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

Revision Date: 20-Dec-2012  
Revision Note Not applicable

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

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End of Safety Data Sheet