

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **SUPER CBL ADDITIVE**

Revision Date: 14-Aug-2012

Revision Number: 15

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

**Product Identifier****Product Name** SUPER CBL ADDITIVE**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Additive**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](mailto: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**

Substances/mixtures which, in contact with water, emit flammable gases.	Category 2- (H261)
Flammable solids	Category 1 - (H228)

**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** F - Highly Flammable.

**Risk Phrases** R11 Highly flammable.  
R15 Contact with water liberates highly flammable gases.

### Label Elements

### Hazard Pictograms



**Signal Word** Danger

H261 - In contact with water releases flammable gases  
H228 - Flammable solid

### Contains

**Substances**  
Aluminum

**CAS Number**  
7429-90-5

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

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P223 - Keep away from any possible contact with water, because of violent reaction and possible flash fire  
P240 - Ground/Bond container and receiving equipment  
P241 - Use explosion-proof electrical/ventilating/lighting/equipment  
P335 + P334 - Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages  
P370 + P378 - In case of fire: Use sand for extinction

### Other Hazards

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Aluminum	231-072-3	7429-90-5	60 - 100%	F; R11-15	Flam. Sol. 1 (H228) Water-react. 2 (H261)	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 from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

#### Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### Skin

#### Ingestion

Wash with soap and water. Get medical attention if irritation persists.  
Under normal conditions, first aid procedures are not required.

#### 4. FIRST AID MEASURES

##### **Most Important symptoms and effects, both acute and delayed**

May cause eye irritation.

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

Notes to Physician

Treat symptomatically

#### 5. FIREFIGHTING MEASURES

##### **Extinguishing media**

##### **Suitable Extinguishing Media**

Sand.

##### **Extinguishing media which must not be used for safety reasons**

Do NOT use water or carbon dioxide or other liquids on aluminum fires.

##### **Special hazards arising from the substance of mixture**

##### **Special Exposure Hazards**

Flammable dust when in finely divided and highly suspended state. Avoid stirring burning aluminum. Shut off electricity. Isolate material. Ring sand or class D extinguishing material around fire to contain.

##### **Advice for firefighters**

##### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### 6. ACCIDENTAL RELEASE MEASURES

##### **Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

##### **Environmental precautions**

None known.

##### **Methods and material for containment and cleaning up**

Remove ignition sources and work with non-sparking tools. Scoop up and remove.

##### **Reference to other sections**

See Section 12 for additional information.

#### 7. HANDLING AND STORAGE

##### **Precautions for Safe Handling**

Avoid creating or inhaling dust.

##### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

##### **Conditions for safe storage, including any incompatibilities**

Store away from oxidizers. Store away from acids. Store away from alkalis. Store away from water. Store in a cool, dry location.

Product has a shelf life of 9 months

##### **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
Aluminum	Not applicable	10 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Aluminum	Not applicable	2.5 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	10.0 mg/m <sup>3</sup>	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**

Normal work gloves.

**Skin Protection**

Normal work coveralls.

**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:** Silver**Odor:** Odorless**Odor Threshold:** No information availablePropertyValuesRemarks/ 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**

&gt; 176°C

Closed cup

**lower flammability limit**

0.04%

**Evaporation rate**

No data available

**Vapor Pressure**

No data available

**Vapor Density**

No data available

**Specific Gravity**

2.7

**Water Solubility**

Insoluble in water

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition Temperature**

650°C

**Decomposition Temperature**

No data available

**Viscosity**

No data available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

Other information**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

Keep away from any contact with water.

Incompatible Materials

Contact with water. Strong acids. Strong alkalis. Strong oxidizers. Halogenated compounds.

Hazardous Decomposition Products

Flammable hydrogen gas. Metal oxides.

## 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects**Acute Toxicity**

**11. TOXICOLOGICAL INFORMATION**

<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye Contact</b>	May cause mild eye irritation.
<b>Skin Contact</b>	None known.
<b>Ingestion</b>	None known

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may cause lung damage.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum	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)
Aluminum	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.  
Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION****IMDG/IMO**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted
<b>Transport Hazard Class(es):</b>	Not applicable

**RID**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted
<b>Transport Hazard Class(es):</b>	Not applicable

**14. TRANSPORT INFORMATION****ADR**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**IATA/ICAO**

UN Number: Not restricted.  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable

**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

**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)** WGK 0: Generally not water endangering.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

R11 Highly flammable.

R15 Contact with water liberates highly flammable gases.

**Key literature references and sources for data**

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

**Revision Date:** 14-Aug-2012  
**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**