# **HALLIBURTON**

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

# **TUNED LIGHT 1320**

Revision Date: 11-Jun-2012 Revision Number: 4

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

**Product Identifier** 

Product Name TUNED LIGHT 1320

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

Recommended Use Cement

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

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

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For further information, please contact

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**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

Skin Corrosion / irritation	Category 2 - (H315)
Serious Eye Damage / Eye Irritation	Category 1 - (H318)
Skin Sensitization	Category 1- (H317)
Carcinogenicity	Category 1A - (H350)
Specific Target Organ Toxicity - (Single Exposure)	Category 3 - (H335)
Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - (H372)

# 2. HAZARDS IDENTIFICATION

# 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

Classification Xi - Irritant.

**Risk Phrases** R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact. R37/38 Irritating to respiratory system and skin.

#### **Label Elements**

# **Hazard Pictograms**







Signal Word

# **Danger**

#### **Hazard Statements**

H318 - Causes serious eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H372 - Causes damage to organs through prolonged or repeated exposure

H350i - May cause cancer by inhalation

# Contains

Substances	CAS Number
Sodium metasilicate, anhydrous	6834-92-0
Fly ash	68131-74-8
Portland cement	65997-15-1
Crystalline silica, quartz	14808-60-7

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P201 - Obtain special instructions before use

P280 - Wear eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P308 + P313 - IF exposed or concerned: Get medical advice/attention

# **Other Hazards**

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS	

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Sodium metasilicate, anhydrous	229-912-9	6834-92-0	1 - 5%	C; R34 Xi; R37	Skin Corr. 1B (H314) Eye Damage 1 (H318) STOT SE 3 (H335) Corr. to Metal 1 (H290)	No data available
Fly ash	268-627-4	68131-74-8	30 - 60%	Not applicable	Not applicable	No data available
Portland cement	266-043-4	65997-15-1	30 - 60%	Xi; R37/38-41 R43	Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) STOT SE 3 (H335)	No data available
Crystalline silica, quartz	238-878-4	14808-60-7	1 - 5%	Not applicable	Carc. 1A (H350i) STOT RE 1 (H372)	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, 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** Under normal conditions, first aid procedures are not required.

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

May cause eye, skin, and respiratory irritation. May cause allergic skin reaction. Potential carcinogen.

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

Notes to Physician Treat symptomatically

# 5. FIREFIGHTING MEASURES

Extinguishing mediaó Suitable Extinguishing Media

None - does not burn.

Extinguishing media which must not be used for safety reasons

None known.

Special hazards arising from the substance of mixture

**Special Exposure Hazards** 

Not applicable.

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. Avoid creating and breathing dust.

See Section 12 for additional information

# **Environmental precautions**

None known.

# Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

#### 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. This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

# Conditions for safe storage, including any incompatibilities

Store in a cool, dry location. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Product has a shelf life of 24 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
Sodium metasilicate,	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
anhydrous					
Fly ash	Not applicable	4 mg/m <sup>3</sup>	Not applicable	Not applicable	Not applicable
Portland cement	Not applicable	10 mg/m <sup>3</sup>	Not applicable	Not applicable	5 mg/m <sup>3</sup>
Crystalline silica, quartz	Not applicable	0.1 mg/m <sup>3</sup>	0,075 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0,15 mg/m <sup>3</sup>

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Sodium metasilicate,	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
anhydrous					
Fly ash	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Portland cement	Not applicable	6.0 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10.0 mg/m <sup>3</sup>	Not applicable
Crystalline silica, quartz	Not applicable	2 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>	Not applicable	Not applicable

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available. No information available.

(PNEC)

Exposure controls
Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures

below applicable exposure limits listed in Section 2.

Personal protective equipment

Respiratory Protection We

Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or equivalent respirator

when using this product.

Hand Protection

Normal work gloves.

**Skin Protection** Wear clothing appropriate for the work environment. Dusty clothing should be laundered

before reuse. Use precautionary measures to avoid creating dust when removing or

laundering clothing.

**Eye Protection** Wear safety glasses or goggles to protect against exposure. **Other Precautions** Eyewash fountains and safety showers must be easily accessible.

**Environmental Exposure Controls** No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Color: Gray

Odor: Odorless Odor Threshold: No information available

Property Values
Remarks/ Method

pH: 12.4

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 No data available **Specific Gravity** Water Solubility No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available

ViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

Other information

**Decomposition Temperature** 

VOC Content (%) No data available

# 10. STABILITY AND REACTIVITY

No data available

Reactivity

Not applicable

**Chemical Stability** 

Stable

**Possibility of Hazardous Reactions** 

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Hydrofluoric acid.

**Hazardous Decomposition Products** 

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

# 11. TOXICOLOGICAL INFORMATION

# Information on Toxicological Effects

**Acute Toxicity** 

**Inhalation** Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is

carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental

animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects

(See "Chronic Effects/Carcinogenicity" subsection below).

**Eye Contact** May cause severe eye irritation.

Skin Contact Can dry skin. May cause an allergic skin reaction. May cause alkali burns with confined

contact.

**Ingestion** None known

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# 11. TOXICOLOGICAL INFORMATION

Chronic Effects/Carcinogenicity Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

> Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

> There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metasilicate, anhydrous	1280 mg/kg	No data available	No data available
Fly ash	No data available	No data available	No data available
Portland cement	No data available	No data available	No data available
Crystalline silica, quartz	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)
Sodium metasilicate, anhydrous	No information available	No information available	No information available	No information available
Fly ash	No information available	No information available	No information available	TLM96: > 1000 ppm (Crangon crangon)
Portland cement	No information available	No information available	No information available	No information available
Crystalline silica, quartz	No information available	No information available	No information available	No information available

# Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

# Bioaccumulative potential

Does not bioaccumulate

# 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**Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

# 14. TRANSPORT INFORMATION

# IMDG/IMO

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

**RID** 

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

**ADR** 

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Not applicable

# IATA/ICAO

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted 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.
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/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

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

R37/38 Irritating to respiratory system and skin.

# Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 11-Jun-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**