## **HALLIBURTON**

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **DCA-17003**

Revision Date: 12-Jan-2015 Revision Number: 4

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name DCA-17003

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Inhibitor

## 1.3. 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

#### 1.4. Emergency telephone number

+44 1224 795277 or +1 281 575 5000

Emergency telephone - §4	15 - (EC)1272/2008
Europe	112
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)
Cyprus	+210 7793777
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
Romania	+40 21 318 36 06
Spain	Poison Information Service (ES): +34 91 562 04 20
United Kingdom	NHS Direct (UK): +44 0845 46 47

## SECTION 2: Hazards Identification

## 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008** 

Acute Toxicity - Dermal	Category 3 - H311
Serious Eye Damage / Eye Irritation	Category 2 - H319
Germ Cell Mutagenicity	Category 2 - H341

Carcinogenicity	Category 2 - H351
Flammable liquids.	Category 2 - H225

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

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

**Classification** F - Highly Flammable.

T - Toxic.

Risk Phrases R11 Highly flammable.

R24 Toxic in contact with skin.

R36 Irritating to eyes.

R40 Limited evidence of a carcinogenic effect. R68 Possible risk of irreversible effects.

#### 2.2. Label Elements

#### **Hazard Pictograms**



## Signal Word

#### Danger

#### **Hazard Statements**

H225 - Highly flammable liquid and vapor

H311 - Toxic in contact with skin

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

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

P280 - Wear eye protection/face protection

P281 - Use personal protective equipment as required

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P370 + P378 - In case of fire: Use water spray for extinction

## **Contains**

SubstancesCAS NumberAldol107-89-1Crotonaldehyde123-73-9Acetaldehyde75-07-0

## 2.3. Other Hazards

None known

## **SECTION 3: Composition/information on Ingredients**

#### 3.2. Mixtures Mixture

Substances	EINECS	CAS Number	PERCENT (w/w)	EEC Classification	EU - CLP Substance Classification	REACH No.
Aldol	203-530-2	107-89-1	30 - 60%	T+; R27 Xi; R36	Acute Tox. 2 (H310) Eye Irrit. 2 (H319)	No data available
Crotonaldehyde	204-647-1	123-73-9	1 - 5%	F; R11 T+; R26 T: R24/25 48/25 Muta. Cat. 3; R68 Xi; R37/38-41 N; R50	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Muta. 2 (H341) STOT SE 3 (H335) STOT RE 1 (H372) Aquatic Acute 1 (H400)	No data available
Acetaldehyde	200-836-8	75-07-0	1 - 5%	F+; R12 Carc. Cat. 3; R40 Xn; R68 Xi; R36/37	Flam. Liq. 1 (H224) Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Muta. 2 (H341) Carc. 2 (H351) STOT SE 3 (H335)	No data available

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

## **SECTION 4: First aid measures**

4.1. 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

lushina.

**Skin** In case of contact, immediately flush skin with plenty of soap and water for at

least 15 minutes. Get medical attention. Remove contaminated clothing and

launder before reuse.

**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.

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

May cause eye irritation May be harmful if swallowed. Potential carcinogen.

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

Notes to Physician Treat symptomatically

## **SECTION 5: Firefighting Measures**

## 5.1. Extinguishing media

## Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

## 5.2. Special hazards arising from the substance or mixture

## **Special Exposure Hazards**

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.

#### 5.3. Advice for firefighters

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

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

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

## 6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

#### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

## **SECTION 7: Handling and Storage**

## 7.1. Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 36 months.

## 7.3. Specific End Use(s)

Exposure Scenario
Other Guidelines
No information available
No information available

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control parameters

**Exposure Limits** 

Substances	CAS Number	EU	UK	Netherlands	France
Aldol	107-89-1	Not applicable	Not applicable	Not applicable	Not applicable
Crotonaldehyde	123-73-9	Not applicable	Not applicable	2 ppm	2 ppm
Acetaldehyde	75-07-0	Not applicable	TWA: 20 ppm TWA: 37 mg/m <sup>3</sup> STEL: 50 ppm STEL: 92 mg/m <sup>3</sup>	TWA: 37 mg/m³ STEL: 92 mg/m³	100 ppm

Substances	CAS Number	Germany	Spain	Portugal	Finland
Aldol	107-89-1	Not applicable	Not applicable	Not applicable	Not applicable
Crotonaldehyde	123-73-9	0,34 ppm	0.3 ppm STEL [VLA-EC]; 0.87 mg/m³ STEL [VLA-EC]	Not applicable	TWA: 0.1 ppm TWA: 0.29 mg/m³ STEL: 0.3 ppm STEL: 0.87 mg/m³
Acetaldehyde	75-07-0	TWA: 50 ppm TWA: 91 mg/m <sup>3</sup>	25 ppm STEL [VLA-EC]; 46 mg/m³ STEL [VLA-EC]	Not applicable	STEL: 25 ppm STEL: 46 mg/m <sup>3</sup>

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Aldol	107-89-1	Not applicable	Not applicable	Not applicable	Not applicable
Crotonaldehyde	123-73-9	STEL: 1.36 ppm STEL: 4 mg/m <sup>3</sup> TWA: 0.34 ppm TWA: 1 mg/m <sup>3</sup>	2 ppm TWA; 6 mg/m³ TWA 18 mg/m³ STEL; 6 ppm STEL	TWA: 0.34 ppm TWA: 1 mg/m³	TWA: 2 ppm TWA: 6 mg/m³ STEL: 4 ppm STEL: 12 mg/m³
Acetaldehyde	75-07-0	TWA: 50 ppm TWA: 90 mg/m³ STEL" 50 ppm STEL" 90 mg/m³	25 ppm TWA; 45 mg/m³ TWA 25 ppm STEL; 45 mg/m³ STEL	TWA: 90 mg/m³ TWA: 50 ppm STEL: 50 ppm STEL: 90 mg/m³	TWA: 25 ppm TWA: 45 mg/m <sup>3</sup> STEL: 37.5 ppm STEL: 67.5 mg/m <sup>3</sup>

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Aldol	107-89-1	Not applicable	Not applicable	Not applicable	Not applicable

Crotonaldehyde	123-73-9	Not applicable	6 mg/m <sup>3</sup>	Not applicable	TWA: 1 mg/m <sup>3</sup>
Acetaldehyde	75-07-0	Not applicable	TWA: 5 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>
				STEL: 25 mg/m <sup>3</sup>	_

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Aldol	107-89-1	Not applicable	Not applicable	Not applicable	Not applicable
Crotonaldehyde	123-73-9	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup>	Not applicable	Not applicable	Not applicable
Acetaldehyde	75-07-0	Not applicable	TWA: 50 ppm TWA: 90 mg/m <sup>3</sup> STEL: 100 ppm STEL: 180 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 37 mg/m <sup>3</sup> STEL: 50 ppm STEL: 92 mg/m <sup>3</sup>	Not applicable

Derived No Effect Level (DNEL)

No information available.

Worker

**General Population** 

**Predicted No Effect Concentration (PNEC)** 

No information available.

8.2. Exposure controls

**Engineering Controls** 

Use in a well ventilated area. Local exhaust ventilation should be used in areas without

good cross ventilation.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

**Respiratory Protection** Organic vapor respirator.

Hand Protection Impervious rubber gloves.

**Skin Protection** Rubber apron.

**Eye Protection**Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions**Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls No information available

## **SECTION 9: Physical and Chemical Properties**

9.1. Information on basic physical and chemical properties

Physical State:LiquidColor:Clear colorless to pale yellowOdor:PungentOdor Threshold:No information available

Property Values
Remarks/ - Method

pH: 5-7 Freezing Point/Range -30 °C

Melting Point/Range

Boiling Point/Range

Flash Point

Evaporation rate

No data available

100 °C

18 °C PMCC

No data available

Vapor Pressure

0.1 mmHg

Vapor Pressure0.1 mmHgVapor Density3.04Specific Gravity1.053Water SolubilityMiscible with water

Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
No data available
No data available
No data available
No data available

Explosive Properties
No information available
Oxidizing Properties
No information available

#### 9.2. Other information

VOC Content (%) No data available

## **SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

Not applicable

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

10.5. Incompatible Materials

Strong oxidizers. Strong alkalis. Strong acids.

10.6. Hazardous Decomposition Products

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

## **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

**Acute Toxicity** 

Inhalation May cause respiratory irritation. May cause central nervous system depression including

headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech,

giddiness and unconsciousness.

**Eye Contact** Causes eye irritation. May cause corneal injury.

**Skin Contact** May be absorbed through the skin and contribute to the symptoms listed under

ingestion. May cause skin defatting with prolonged exposure. May cause skin irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea.

**Chronic Effects/Carcinogenicity** This product contains a potential carcinogen.

## Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aldol	107-89-1	2180 mg/kg (Rat)	140 mg/kg (Rabbit)	No data available
Crotonaldehyde	123-73-9	206 mg/kg (Rat) 300 mg/kg (Rat)	380 mg/kg (Rabbit) 380 µL/kg (Rabbit) 128 mg/kg (Rabbit) 324 mg/kg (Rabbit)	85 ppm (Rat) 4 h 0.2 mg/L (Rat) 4 h 300 mg/m³ (Rat) 4 h 200 mg/m³ ( Rat)
Acetaldehyde	75-07-0	1930 mg/kg (Rat) 660 mg/kg (Rat)	No data available	13300 ppm (Rat, 4h, vapor)

Substances	CAS	Skin corrosion/irritation
	Number	
Aldol	107-89-1	May cause mild skin irritation. (rabbit)
Crotonaldehyde	123-73-9	Causes moderate skin irritation. (rabbit)
Acetaldehyde	75-07-0	Non-irritating to the skin (rabbit)

Substances	CAS	Eye damage/irritation	
	Number		
Aldol	107-89-1	Causes moderate eye irritation. (rabbit)	
Crotonaldehyde	123-73-9	Causes severe eye irritation which may damage tissue. (rabbit)	
Acetaldehyde	75-07-0	Causes moderate eye irritation. (rabbit)	

Substances	CAS Number	Skin Sensitization	
Aldol	107-89-1	No information available	
Crotonaldehyde	123-73-9	Not regarded as a sensitizer.	
Acetaldehyde	75-07-0	Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties	

Substances	CAS	Respiratory Sensitization	
	Number		
Aldol	107-89-1	No information available	
Crotonaldehyde	123-73-9	No information available	
Acetaldehyde	75-07-0	No information available	

Substances	CAS Number	Mutagenic Effects	
Aldol	107-89-1	No information available	
Crotonaldehyde	123-73-9	some in vivo tests have shown mutagenic effects.	
Acetaldehyde	75-07-0	Some in vitro tests have shown mutagenic effects. Some in vivo tests have shown mutagenic effects.	

Substances	CAS	Carcinogenic Effects	
	Number		
Aldol	107-89-1	No information available.	
Crotonaldehyde	123-73-9	No data of sufficient quality are available.	
Acetaldehyde	75-07-0	This substance is a potential carcinogen.	

Substances	CAS	eproductive toxicity	
	Number	· ,	
Aldol	107-89-1	nformation available	
Crotonaldehyde	123-73-9	data of sufficient quality are available.	
Acetaldehyde	75-07-0	No data of sufficient quality are available.	

Substances	CAS Number	STOT - single exposure	
Aldol	107-89-1	No information available	
Crotonaldehyde	123-73-9	May cause respiratory irritation.	
Acetaldehyde	75-07-0	May cause respiratory irritation.	

		STOT - repeated exposure	
	Number		
Aldol	107-89-1	No information available	
Crotonaldehyde	123-73-9	Causes damage to organs through prolonged or repeated exposure if swallowed (Liver)	
Acetaldehyde	75-07-0	No significant toxicity observed in animal studies at concentration requiring classification.	

Substances	CAS Number	Aspiration hazard
Aldol	107-89-1	Not applicable
Crotonaldehyde	123-73-9	Not applicable
Acetaldehyde	75-07-0	Not applicable

# **SECTION 12: Ecological Information**

# 12.1. Toxicity Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Aldol	107-89-1	EC50(5d): >237 mg/L (Nitzscheria linearis)	No information available	No information available	No information available
Crotonaldehyde	123-73-9	EC50(96h): 0.881 mg/L	LC50(96h): 0.71 mg/L (Oncorhynchus mykiss) LOEC: 0.22 mg/L (Pimephales promelas)	No information available	EC50(48h): 2 mg/L (Daphnia magna) NOEC(28d): > 1.5 (Daphnia magna)
Acetaldehyde	75-07-0	No information available	LC50(95h): 30.8 mg/L (Pimephales promelas)	No information available	EC50(48h): > 4.7 mg/L (Daphnia magna)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Aldol	107-89-1	No information available

Crotonaldehyde	123-73-9	(55% @ 28d)
Acetaldehyde	75-07-0	Readily biodegradable (80 @ 14d)

#### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Aldol	107-89-1	-0.72
Crotonaldehyde	123-73-9	0.63
Acetaldehyde	75-07-0	0.63

#### 12.4. Mobility in soil

No information available

## 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

## **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## **SECTION 13: Disposal Considerations**

13.1. Waste treatment methods

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

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

## **SECTION 14: Transport Information**

IMDG/IMO

UN Number: UN1992

UN Proper Shipping Name: Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol)

Transport Hazard Class(es): 3
Subsidiary Hazard: (6.1)
Packing Group: II

**Environmental Hazards:** Not applicable **EMS:** EmS F-E, S-D

**RID** 

UN Number: UN1992

**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol)

Transport Hazard Class(es): 3
Subsidiary Hazard: (6.1)
Packing Group: ||

Environmental hazard: Not applicable

**ADR** 

UN Number: UN1992

**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol)

Transport Hazard Class(es): 3
Subsidiary Hazard: (6.1)
Packing Group: II

Environmental hazard: Not applicable

IATA/ICAO

UN Number: UN1992

UN Proper Shipping Name: Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol)

Transport Hazard Class(es): 3
Subsidiary Hazard: (6.1)

Packing Group:

**Environmental hazard:** Not applicable

**14.1. UN Number:** UN1992

14.2. UN Proper Shipping Name: Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol)

14.3. Transport Hazard Class(es): 3 (6.1)

14.4. Packing Group:

**14.5. Environmental Hazards:** Not applicable

14.6. Special Precautions for User: None

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

## **SECTION 15: Regulatory Information**

#### 15.1. 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 2: Hazard to waters.

## 15.2. Chemical Safety Assessment

No information available

## **SECTION 16: Other Information**

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

R11 Highly flammable.

R12 Extremely flammable.

R24 Toxic in contact with skin.

R24/25 Toxic in contact with skin and if swallowed.

R27 Very toxic in contact with skin.

R36 - Irritating to eyes

R36/37 Irritating to eyes and respiratory system.

R37/38 Irritating to respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R50 Very toxic to aquatic organisms.

R68 Possible risk of irreversible effects.

#### Full text of H-Statements referred to under sections 2 and 3

H224 - Extremely flammable liquid and vapor

H225 - Highly flammable liquid and vapor

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H310 - Fatal in contact with skin

H311 - Toxic in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure if swallowed

H400 - Very toxic to aquatic life

#### Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification,

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL - Permissible Exposure Limit

ppm - parts per million

PROC - Process category

REACH - REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL – Short Term Exposure Limit

SU - Sector of Use category

## Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 12-Jan-2015

**Revision Note** 

Update to Format SECTION: 8

## This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

#### **Disclaimer Statement**

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**End of Safety Data Sheet**