

**Productname :** CHAIN LUBE FG  
**Ref.Nr.:** BDS001299\_3\_20170105 (EN)

**Creationdate :** 05.01.17 Version : 3.0  
**Replaces:** BDS001299\_20130621

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

### 1.1. Product identifier

**CHAIN LUBE FG**  
Aerosol

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

Lubricants

### 1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.  
Ambersil House - Wylds Road  
Castlefield Industrial Estate  
TA6 4DD Bridgwater Somerset  
United Kingdom  
Tel.: +44 1278 727200  
Fax.: +44 1278 425644  
E-mail : hse.uk@crcind.com

### 1.4. Emergency telephone number

(+44)(0)1278 72 7200 (office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

<b>Physical:</b>	Aerosol, category 3 Pressurised container: May burst if heated.
<b>Health:</b>	Not classified
<b>Environment:</b>	Hazardous to the aquatic environment, chronic category 3 Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

<b>Signal word:</b>	Warning
<b>Hazard statement(s):</b>	H229 : Pressurised container: May burst if heated. H412 : Harmful to aquatic life with long lasting effects.



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**Precautionary statement(s):** P102 : Keep out of reach of children.  
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 : Do not pierce or burn, even after use.  
P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501-2 : Dispose of contents/container to an authorised waste collection point.

**Supplemental Hazard information:** Contains fluorinated greenhouse gases:  
HFC-134a  
quantity expressed in weight and CO2 equivalent depend on actual volume of the packaging: see label  
GWP mixture: see section 12.6

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
tetrafluoroethane	01-2119459374-33	811-97-2	212-377-0	5-10	Press. Gas	H280	B
carbon dioxide	-	124-38-9	204-696-9	<1	Press. Gas	H280	A,G
2,6-di-tert-butyl-p-cresol	01-2119565113-46	128-37-0	204-881-4	<1	Aquatic Acute 1, Aquatic Chronic 1	H400,H410	B
Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates		80939-62-4	279-632-6	<1	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2	H315,H319,H411	
<b>Explanation notes</b>							
A : substance with Community workplace exposure limit							
B : substance with national established workplace exposure limit							
G : exempted from the obligation to register in accordance with art.2(7)(a)of REACH Regulation No 1907/2006							

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Contact with eyes :** If substance has got into eyes, immediately wash out with plenty of water  
**Contact with skin :** Wash with plenty of soap and water.  
**Inhalation :** Remove victim to fresh air and keep at rest in a position comfortable for



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**Ingestion :** breathing.  
If swallowed accidentally, do not induce vomiting and seek medical advice.

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

**Inhalation :** Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness  
**Ingestion :** May cause gastrointestinal disturbances  
Symptoms : sore throat, abdominal pain, nausea, vomiting  
**Skin contact :** In case of contact with liquid product frostbite symptoms may occur.  
**Eye contact :** In case of contact with liquid product frostbite symptoms may occur.

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

**General Advice :** In case of accident or if you feel unwell, seek medical advice (show the label where possible)  
If symptoms persist always call a doctor

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

water, foam, carbon dioxide or dry agent

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

Aerosols may explode if heated above 50°C  
Forms hazardous decomposition products  
CO,CO2  
HF may be formed under condition of fire

#### 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes

### SECTION 6: Accidental release measures

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

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses

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



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Absorb spillage in suitable inert material  
 Wash spill site with water and detergent

#### 6.4. Reference to other sections

For further information see section 8

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition  
 Do not spray on a naked flame or incandescent material.  
 Do not pierce or burn aerosols, even after use.  
 Do not breathe aerosols or vapours.  
 Ensure adequate ventilation  
 Avoid contact with skin and eyes.

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

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Store in a well-ventilated place.  
 Keep out of reach of children.

#### 7.3. Specific end use(s)

Lubricants

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits :

Hazardous ingredient	CAS-nr.	method	
<b>EU established exposure limits:</b>			
carbon dioxide	124-38-9	TWA	9000 mg/m3
		STEL	1800 mg/m3
<b>National established exposure limits, United Kingdom</b>			
carbon dioxide	124-38-9	TWA	5000 ppm
		STEL	15000 ppm
2,6-di-tert-butyl-p-cresol	128-37-0	TWA	10 ppm
tetrafluoroethane	811-97-2	TWA	1000 ppm

#### 8.2. Exposure controls

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<b>Control procedures :</b>	Ensure adequate ventilation Keep away from heat and sources of ignition
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
recommended respiratory protection:	Air purifying respirator equipped with organic gas/vapor cartridge (type A)
<b>hands and skin :</b>	Wear suitable protective gloves
Recommended gloves:	Nitrile
<b>eyes :</b>	Wear safety goggles according to EN 166.
<b>Environmental protection:</b>	Avoid release to the environment. Collect spillage.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

<b>Apperance : physical state :</b>	Liquid under pressure.
<b>colour :</b>	Off-white.
<b>odour :</b>	Neutral.
<b>pH :</b>	Not applicable.
<b>Boiling point/range :</b>	Not available.
<b>Flash point :</b>	> 260 °C (Open Cup)
<b>Evaporation rate :</b>	Not applicable.
<b>Explosion limits : upper limit :</b>	Not available.
<b>lower limit :</b>	Not available.
<b>Vapour pressure :</b>	Not available.
<b>Relative density :</b>	0.93 g/cm <sup>3</sup> (@ 20°C).
<b>Solubility in water :</b>	Insoluble in water
<b>Auto-ignition :</b>	> 200 °C
<b>Viscosity :</b>	425 mPa.s (@ 25°C).

### 9.2. Other information

**VOC:** 62 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

### 10.2. Chemical stability

Stable

### 10.3. Possibility of hazardous reactions



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No hazardous reactions known if used for its intended purpose

#### 10.4. Conditions to avoid

Avoid overheating

#### 10.5. Incompatible materials

Strong oxidising agent

#### 10.6. Hazardous decomposition products

CO,CO2  
 HF may be formed under condition of fire

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>acute toxicity:</b>	based on available data the classification criteria are not met
<b>skin corrosion/irritation:</b>	based on available data the classification criteria are not met
<b>serious eye damage/irritation:</b>	based on available data the classification criteria are not met
<b>respiratory or skin sensitisation:</b>	based on available data the classification criteria are not met
<b>germ cell mutagenicity:</b>	based on available data the classification criteria are not met
<b>carcinogenicity:</b>	based on available data the classification criteria are not met
<b>toxicity for reproduction:</b>	based on available data the classification criteria are not met
<b>STOT-single exposure:</b>	based on available data the classification criteria are not met
<b>STOT repeated exposure:</b>	based on available data the classification criteria are not met
<b>aspiration hazard:</b>	based on available data the classification criteria are not met

#### Information on likely routes of exposure:

<b>Inhalation :</b>	Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness
<b>Ingestion :</b>	May cause gastrointestinal disturbances
<b>Skin contact :</b>	In case of contact with liquid product frostbite symptoms may occur.
<b>Eye contact :</b>	In case of contact with liquid product frostbite symptoms may occur.

#### Toxicological data :

Hazardous ingredient	CAS-nr.	method	
tetrafluoroethane	811-97-2	LC50 inhal.rat	567000 ppm

### SECTION 12: Ecological information

#### 12.1. Toxicity



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Hazardous to the aquatic environment, chronic category 3  
Harmful to aquatic life with long lasting effects.

**Ecotoxicological data:**

Hazardous ingredient	CAS-nr.	method	
tetrafluoroethane	811-97-2	LC50 fish	450 mg/l
		EC50 daphnia	980 mg/l

**12.2. Persistence and degradability**

No experimental data available

**12.3. Bioaccumulative potential**

No experimental data available

**12.4. Mobility in soil**

Insoluble in water

**12.5. Results of PBT and vPvB assessment**

No information available

**12.6. Other adverse effects**

No experimental data available

GWP (global warming potential): 94

(calculated in accordance with Annex IV of Regulation (EU) No 517/2014 on fluorinated greenhouse gases)

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Product :** This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

**SECTION 14: Transport information****14.1. UN number**

UN-number : 1950



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#### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS

#### 14.3. Transport hazard class(es)

Class: 2.2  
ADR/RID - Classification code: 5A

#### 14.4. Packing group

Packing group: Not applicable.

#### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally hazardous: No

#### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (E)  
IMDG - Ems: F-D, S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Safety Data Sheet is compiled according to the current European requirements.  
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.  
Regulation (EC) No 1907/2006 (REACH)  
EU-directive 99/45/EC  
Regulation (EC) No 1272/2008 (CLP)

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation hazard statements: H280 : Contains gas under pressure; may explode if heated.



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H315 : Causes skin irritation.  
H319 : Causes serious eye irritation.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

REVISIONS IN CHAPTRE : Labelling according to Regulation (EC) No 1272/2008

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.

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