

**LUBYSIL BCS 61 CF  
SAFETY DATA SHEET**

**1. Identification of the Substance and of the Company Undertaking**

Identification of the Substance or preparation:

Name: Lubysil BCS 61 CF

Company/Undertaking Identification:

Name: John Clayden & Partners (Lubysil) Ltd. 9, Frensham Road, Norwich, Norfolk. NR3 2BT England

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Use of the Substance:

Soluble metalworking fluid for machining operations

**2. Hazards Identification**

This product is not classed as flammable. Refer to the recommendations regarding the other products on site.

This preparation is not classed as hazardous to health by directive 1999/45/EC.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Preparation classification:

R 52/53 Harmful to aquatic organisms, may cause long term effects on the aquatic environment.

Other data:

High risk of slipping due to leakage/spillage of product.

**3. Composition/Information on Ingredients**

Full text of risk phrases appearing in Section 3: see section 16.

Index	CAS	EC	Name	Symb	R:	%
	103818-93-5		Alcohols, C9-C11 Ethoxylated	Xi	41	0<=x%<2.5
	4299-07-4	420-590-7	2-Butyl-1,2 Benzisothiazio Lin-3-one	C N	34,43 50/53	0<=x%<2.5
603-079.00-5	105-59-9	203-312-7	Methyldiethanolamine N-	Xi	36	2.5<=x%<10
	*141-43-5	*205-483-3	2-Aminoethanol, in compounds with Contained acids	Xn	20/21/22	2.5<=x%<10
	85536-23-8	Polymer	Amines, Rape-Oil, N- (Hydroxyethyl) Ethoxylated	Xi	38	0<=x%<2.5
	3811-73-2	223-296-5	1-Hydroxy-2-(1H)-Pyridine Thione, Sodium Salt	Xn N	36/38 50 22	0<=x%<2.5

Other Substances with Occupational Exposure limits:

CAS 141-43-5 2-Aminoethanol

CAS 10043-35-3 Boric Acid

CAS 102-71-6 Triethanolamine

Index	CAS	EC	Name	Symb	R:	%
	102-71-6	203-049-8	Triethanolamine			2.5<=x%<10

Cont/d....

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Other Components:

\*CAS/EINECS for free acid, base or alkanolamine

Index	CAS	EC	Name	Symb.	R:	%
649-465-00-7	64742-52-5	265-155-0	Base Oil Unspecified			10<=x%<25
649-466-00-2	64742-53-6	265-156-6	Distillates (Petroleum), Hydrotreated Naphthenic			0<=x%<2.5
649-469-00-9	64742-56-9	265-159-2	Distillates (Petroleum), Solvent-Dewaxed Light Paraffinic			0<=x%<2.5

#### 4. First Aid Measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In The Event of Exposure by Inhalation:

In case of big quantities inhaled, move affected person to fresh air, keep warm and allow to rest.

In The Event of Splashes or Contact with Eyes:

Rinse eyes thoroughly with clean and fresh water.

Refer patient to an Ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the Event of Contact With Skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water.

In the Event of Swallowing:

In the case of swallowing, keep the patient at rest and contact a doctor.

DO NOT induce vomiting.

Information for the Doctor:

Treat symptomatically.

#### 5. Fire Fighting Measures

Suitable Extinguishing Media:

Not applicable/Not relevant.

Extinguishing Media Which Must Not Be Used For Safety Reasons:

Water jet or under pressure

Special Protective Equipment for Fire-Fighters:

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus. Fire-fighting personnel must use breathing with independent air supply (insulated).

Special Exposure Hazards Arising from the Substance or Preparation Itself, Combustion Products, Resulting Gases:

This product only burns after evaporation of water by the extremely high temperatures during fire.

Combustion produces a complex mixture of gases and airborne particulates, including:

COx

NOx

SOx

Unidentified organic and inorganic compounds.

Cont/d....

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**6. Accidental Release Measures**

Personal Precautions:

Consult the safety measures listed under headings 7 & 8.

Environmental Precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains of waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13)

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures.

Methods for Clearing Up:

Absorb or contain spillages with sand, earth or spill control materials

Clean up the liquid with pumps or shovels

Clean contaminated floors and objects thoroughly observing environmental regulations

Clean preferably with a detergent, do not use solvents

**7. Handling & Storage**

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Handle in well-ventilated areas.

Fire Prevention:

Prevent access by unauthorised personnel

Recommended Equipment & Procedures:

For Personal Safety See Section 8

Observe precautions stated on label and also industrial safety regulations.

When not in use, keep the containers tightly closed and in vertical position.

Prohibited Equipment and Procedures:

Never open the packages under pressure.

Smoking, eating and drinking are prohibited in areas where the preparation is used.

Storage:

Keep the container tightly closed in a dry place.

Keep away from food and drink

Avoid contact with materials which react with water

Keep packaging closed and away from frost

Do not store together with strong oxidising agents

Storage temperature: 5-40°C

Cont/d...

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**8. Exposure Control/Personal Protection**

Use personal protection equipment as per Directive 89/86/EEC

Exposure limit values per INRES ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.
141-43-5	3	8	-	-	-	49.49 Bis

The names of the components identified in this chapter are mentioned in Section 2.

Substance: Oil mist, mineral

Exposure Duration: TWA Exposure Limit: 5mg/m<sup>3</sup> Exposure Duration: STEL Exposure Limit: 10 mg/m<sup>3</sup>

Regulations: ACGIH Threshold Limit Values: EH 40 2005 Health &amp; Safety Executive. EH40; Occupational Exposure Limits

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
141-43-5	2.5	1	7.6	3	Peau

Exposure limit values (2003-2006):

Switzerland	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Temps:	RSB:
3811-73-2	1 l mg/m3	-	2 l mg/m3	-	4 x 15	R
Germany	AGW:	AGW:	Faktor:	Bemerkungen:		
3811-73-2	-	1 mg/m3	2(II)	DFG. H.Y		
Denmark (3.4/3.4.1)	TWA:	STEL:	Anm:	TWA:	STEL:	Anm:
102-71-6	0.5ppm	3.1 mg/m3		0.5ppm		
Ireland	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
Czech Rep.	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	10 mg/m3	-	-	-	
UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
Polska	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3mg/m3	10 mg/m3	-	-	-	
Suomi/Finlande	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
141-43-5	3 ppm	6 ppm	-	-	-	
141-43-5	5 mg/m3	2 ppm	10 mg/m3	4 ppm	4 x 15	S
10043-35-3	-	0.5 mg/m3	2 (I)	AGS, Y 10		
141-43-5	2 ml/m3	5.1 mg/m3	2 (I)	DFG, H, Y		
141-43-5	1 ppm	2.5 mg/m3	H	1 ppm		H
141-43-5	3 ppm	6ppm	-	-	-	
141-43-5	5 mg/m3	10 mg/m3	-	-	-	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
10043-35-3	2 mg/m3	6 mg/m3	-	-	I	
141-43-5	3 ppm	6 ppm	-	-	-	
Nederland	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
3811-73-2	1 mg/m3	-	-	-	-	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	1 ppm	3 ppm	-	-	-	

Cont/d.

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Exposure Limit Values (2003-2006) Cont/d.

Belgique	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	
Norsk	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	-	-	-	-	
Espana	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	-	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	
Sverige	TWA:	STEL:	Ceiling:	Definition:	Criterion:	
102-71-6	5 mg/m3	10 mg/m3	-	-	-	
141-43-5	3 ppm	6 ppm	-	-	-	

**Respiratory Protection:**

In case of forming mist or if ventilation is not sufficient it's recommended to wear breathing apparatus (type FFA1P1 according to standard CE EN 405)

In case of higher concentrations than exposure limits, wear approved and appropriate respirator apparatus (type FFA1P1 according to standard CE EN 405).

**Hand Protection:**

Wear protective gloves if advisable under safety aspects.

Gloves of appropriate material (i.e. nitrilic rubber, specification, penetration time: level 6, >480min., thickness 0.9-1mm; CE-certified acc. EN 374 cat III)

Use appropriate protection cream, especially if for safety reasons protective gloves are not available.

**Eye & Face Protection:**

Use glasses or face shield if there is a risk of splashing.

**Skin Protection:**

Standard issue working clothes. Safety shoes or boots – chemical resistant.

Remove contaminated clothing. Wash affected skin with soap and water.

Do not keep lubricant contaminated rags in pockets or work clothes.

**9. Physical & Chemical Properties**

General Information:

Physical State:	Fluid Liquid
Important health, safety and environmental information:	
pH of the substance or preparation:	Slightly basic
When a pH measure is possible, it has a value of:	Not stated
pH (aqueous solution):	@ 3% 9.2
Boiling point/boiling range:	Not relevant
Flash point interval:	Not relevant
Vapour pressure:	Not relevant
Density:	Not relevant
Density:	1.01 kg/dm <sup>3</sup> (ASTM D 1298)
Water solubility:	Dilutable
Other Information:	
Melting point/melting range:	Not relevant
Self-ignition temperature:	Not relevant
Decomposition point/decomposition range	Not relevant
% VOC:	0

Cont/d....

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**10. Stability and Reactivity**

The preparation is stable at the handling and storage conditions recommended per section 7 of the safety data sheet.

Conditions to Avoid:

Acid Conditions (pH <7)

Heat

Materials to Avoid:

Strong oxidising agents

Materials which strongly react with water

Strong bases

Acids

Hazardous decomposition products:

No dangerous decomposition products occur under normal storage and use conditions.

**11. Toxicological Information**

No data is available regarding the preparation itself

The toxicological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substances/preparations directive.

In the event of Inhalation:

May cause slight, temporary irritation to respiratory system and mucous membranes

Toxic effects are not expected: LC50 > 5mg/l/4h (rat)

Sensitisation by inhalation is not expected.

In the event of Swallowing:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

In the Event of Splashes and Contact with Skin:

Toxic effects are not expected: LC50 > 2000 mg/kg (rat)

Sensitisation by skin contact is not expected.

Contact with skin may cause skin irritation and dermatosis, if corrected procedures for personal hygiene might not be taken under consideration.

In the Event of Splashes & Contact With Eyes:

Slight irritation is possible.

Other Data:

No data available to demonstrate that the product has chronic or harmful effects on human health.

Contains a formaldehyde releaser. Very small amounts of formaldehyde, which has hazardous effects on human health, may be released. During use the accumulation of substances, which may be hazardous for human health, is possible. The product is not expected to be carcinogenic, mutagenic, teratogenic, or toxic for reproduction.

**12. Ecological Information**

No ecological data on the product itself is available. The product must not be allowed to run into drains or waterways.

The ecological information are based on data for the component(s) and/or are deduced from the results of the evaluation according to the criteria of the substance/preparation directive.

Mobility:

In nature the product is liquid in most conditions.

The product emulsifies in water

Persistence & Degradability:

Not known

Bioaccumulative Potential:

Potentially bioaccumulative

Ecotoxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful to aquatic organisms: 10 < LC50/EC50/IC50 < 100 mg/l

Cont/d....

Lubysil BCS 61 CF Cont/d.  
Ecological Information Cont/d.

CAS	EC	Name	LC50 (for Fish) 96h	CE50 (for daphnia) 48h
4299-07-4	420-590-7	2-Butyl-1,2 Benzisothiazolin-3-one	-	

Other adverse effects:

Germany: WGK 1 (VwVwS vom 17/05/99, KBws)

This product contains component(s) designated as Marine Pollutant.

Information on absorbable halogenic compounds (AOX):

The product does not contain substances which may increase the AOX value.

### 13. Disposal Considerations

Do not pour into drains or waterways

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose into the environment.

Soiled Packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor

Recommended cleaning agent: water

Codes of Wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

12 01 09 \* machining emulsions and solutions free of halogens.

Allocation of the waste code numbers must be realised under considerations of existing sector specifics and processes.

The above allocation is a recommendation for the product after recommended use.

### 14. Transport Information

Exempt from transport classification and labelling

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2007 – IMDG 2006 – ICAO/IATA 2007).

### 15. Regulatory Information

This preparation was classified in compliance known as <All preparations> 1999/45/EC and its adaptations. In addition directive 2004/73/EC with the 29<sup>o</sup> adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account. This preparation is not classed as hazardous to health by directive 1999/45/EC. This product is not classed as flammable.

Particular hazards associated with the preparation and safety recommendations:

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Particular Provisions:

Germany: WGK 1 (VwVws vom 17/05/99, KBws)

### 16. Other Information

Since the working conditions are not known by us, the information supplied on the sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any other purposes other than those specified under heading 1 without first obtaining written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information on this sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

TARIC Code: 3403 1999

This product should be used for industrial processing or applications only.

Abbreviations in Chapter 8

(i) Category I: substances for which the localised effect has an assigned OEL or for substances with a sensitising effect in respiratory passages

(ii) Category II: substances with a resorptive effect

H: Substance can be absorbed through the skin

AGS: Decision of the Committee for Dangerous Substances

NL-Experten: Committee on Updating of Occupational Exposure Limits (committee of the Health Council of the Netherlands)

