

SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY / UNDERTAKING	
Product Name:	Lubysil B.C.O.14
Company:	John Clayden & Partners (Lubysil) Ltd 9 Frensham Rd Norwich NR3 2BT
Phone Number:	01603 789924 (not 24 hours)
SDS compiler	claydenlubysil@aol.com
Revision:	14/03/08
Replaces SDS:	30/07/07
Intended use:	speciality metal cutting fluid

2 HAZARDS IDENTIFICATION	
Human Health Effects:	Tetrachloroethylene component - Limited evidence of carcinogenicity; high exposure by inhalation may be harmful
Environmental Effects:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS	
Composition of Preparation:	Blend of mineral oil, lubricity additives and tetrachloroethylene
Hazardous Ingredients:	Tetrachloroethylene (EC 204-825-9) Xn;Carc Cat 3: R40 N;R51,53. Concentration 25-50%
Exposure limit values exist for the following constituent	Tetrachloroethylene, concentration 25-50% (see section 8) Mineral Oil, concentration <35% (see section 8)

4 FIRST-AID MEASURES	
Inhalation	Remove from exposure; keep warm and at rest; obtain medical attention urgently
Skin Contact:	Wash skin with soap and water and remove contaminated clothing. Obtain medical attention if blistering occurs.
Eye Contact:	If substance has got into eyes, immediately wash out with plenty of water and seek medical attention.
Ingestion:	Wash out mouth with water. Give water to drink (unless patient is losing consciousness). Do not induce vomiting.
Further medical treatment	Following significant exposure to high concentrations of vapour, avoid treatment with sympathomimetic drugs such as Adrenaline. Gastric lavage may be effective when performed within 4 hours of ingestion. Following ingestion, absorbents such as activated charcoal may be of value.

5 FIRE-FIGHTING MEASURES	
Extinguishing:	Product is non-flammable – keep containers cool by spraying with water
Exposure Hazards:	May give hazardous fumes of phosgene and hydrogen chloride if involved in a fire.
Protective Equipment for fire fighting:	Full protective clothing and self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	PVC or rubber gloves; chemical goggles; overalls. Ventilate the area to clear fumes
Environmental Precautions:	Prevent entry into drains and water courses
Methods for Cleaning Up:	Soak up with inert absorbent.

7 HANDLING AND STORAGE	
Handling:	Use in well-ventilated area. Atmospheric levels should be controlled in compliance with occupational exposure limit. Do not breathe vapour and avoid contact with eyes, skin and clothing. Avoid contact with naked flames and hot surfaces or weld in the presence of vapours as toxic decomposition products can be formed. The usual precautions for handling chemicals should be observed.
Storage:	Keep container dry. Keep in a cool, well-ventilated place and away from heat sources.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure limit values for mist	Tetrachloroethylene: OES 345 mg/m ³ (8h. TWA); STEL 689 mg/m ³ (15min. TWA) Oil mist, mineral: OES 5mg.m ⁻³ (8 h. TWA); STEL 10mg.m ⁻³ (15 min)
Personal Protective Equipment:	Wear overalls and chemical goggles. Wear PVC or rubber gloves for short-term exposure or PVA or Viton gloves for prolonged exposure. Remove working clothes after work. Respiratory equipment approved for organic vapours and mists if there is a risk of exposure to vapour

9 PHYSICAL AND CHEMICAL PROPERTIES	
Physical State	liquid
Appearance	colourless
Odour	distinctive
pH	neutral
Boiling point/range (°C)	>120°C
Flash Point (°C)(closed cup)	No flash point
Flammability – autoignition temp. (°C)	No data available
Explosive properties	No data available
Oxidising properties	none
Vapour pressure (mbar @ 20°C)	No data available
Relative Density (@15.5°C)	1.294
Solubility in water	insoluble
Solubility in fat / solvent	miscible
Partition coefficient (log Pow)	No data available
Viscosity (mPa.s @ 20°C)	No data available
Vapour density	No data available
Evaporation rate	No data available
Melting Point (°C)	<0



10 STABILITY AND REACTIVITY	
Stability:	Stable in normal conditions
Conditions to avoid:	Avoid high temperatures
Materials to avoid	Strong bases, oxidising agents. May react violently with metals such as sodium, potassium and barium. May react with freshly galvanised surfaces to produce highly toxic dichloroacetylene.
Hazardous decomposition products	Contact with very hot surfaces or naked flames may produce toxic fumes of phosgene and hydrogen chloride.

11 TOXICOLOGICAL INFORMATION	
Laboratory Data:	
Acute Toxicity	
-oral	LD50 (oral, rat) >2000 mg/kg
-inhalation	Note occupational exposure limits in section 8 – inhalation of concentrations above the OEL may lead to light-headedness, nausea and headache.
-dermal	Can be absorbed through the skin
Corrosivity/Irritation	
-eye	May cause irritation
-skin	Slight irritant – may cause dryness or cracking
-respiratory tract	See acute toxicity remarks above
Sensitisation	
-skin	No evidence of sensitisation effects
-respiratory	No evidence of sensitisation effects
Repeated-dose toxicity	No data available on effects of repeated skin contact
Mutagenicity	No evidence of mutagenicity
Carcinogenicity	Lubysil BCO.14 contains tetrachloroethylene which is classified by EEC as a Category 3 carcinogen-substances which cause concern for man owing to possible carcinogenic effects but in respect of which the information is not adequate for making a satisfactory assessment
Reproductive toxicity	No evidence of reproductive toxicity

12 ECOLOGICAL INFORMATION	
Ecotoxicity	The product is rated as slightly toxic to aquatic species
Mobility	Insoluble in water
Persistence and degradability	Product is not expected to be biodegradable
Bioaccumulative potential	Product may bioaccumulate but with short retention of the order of one week or less
Other adverse effects	None known

13 DISPOSAL CONSIDERATIONS	
Waste Residue:	Disposal should be in accordance with local or national legislation via an authorised waste disposal contractor to an approved waste disposal site. Classified as HAZARDOUS WASTE under HWR and LoWR. List of Waste/European Waste Catalogue ('EWC') code 12 01 06* <i>mineral-based machining oils containing halogens (except emulsions and solutions)</i>
Packaging:	Dispose of through authorised waste contractor

14 TRANSPORT INFORMATION	
Transport Classification	Lubysil B.C.O.14 is classified as dangerous goods for carriage under Road, Sea and Air Carriage Regulations. When packed in cans of 5 litre capacity or less, may be carried under the limited quantity provision of Road and Sea Regulations CDG, ADR, IMDG (not Air ICAO/IATA)
UN Number	1897
Hazard Class	6.1
Proper Shipping Name	<i>Tetrachloroethylene mixture</i>
Packing Group	III Transport Category (CDG, ADR): 2
Marine Pollutant (IMDG)	Yes

15 REGULATORY INFORMATION	
CHIP3 Classification	Classified as hazardous, Harmful, Category 3 carcinogen and Dangerous for the environment
CHIP Label	
Label Name	Lubysil B.C.O.14
Symbol	Xn, N
	 
	HARMFUL DANGEROUS FOR THE ENVIRONMENT
Named component	<i>Contains Tetrachloroethylene</i>
Risk Phrases	R40 <i>Limited evidence of a carcinogenic effect</i> R51/53 <i>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</i>
Safety Phrases	S23 <i>Do not breathe vapour/spray</i> S36/37 <i>Wear suitable protective clothing and gloves</i> S51 <i>Use only in well-ventilated areas</i> S61 <i>Avoid release to the environment. Refer to special instructions/safety data sheet</i>
EC Number	None required for label
EC Directives	REACH Regulation EC 1907/2006 Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 1999/45/EC.
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3) and subsequent amendments The Hazardous Wastes Regulations 2005 (HWR) and the List of Wastes Regulations 2005 (LoWR) The Control of Substances Hazardous to Health Regulations 2002

16 OTHER INFORMATION	
<i>This product safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations</i>	
Further references:	Occupational exposure limits (EH 40) COSHH essentials (HSG 193)
	UK HSE Guidance Notes: INDG365 – <i>Working safely with metalworking fluids - a guide for employees</i> HSG 231 - <i>Working safely with metalworking fluids - Good practice manual</i>
	Also see: <i>Perchloroethylene</i> : http://www.eurochlor.org/upload/documents/document255.pdf
Sections 1-3 have been amended to meet the requirements of REACH regulation EC 1907/2006	