Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Printing Date: 05 June 2020 ***Revision: 14 August 2015***

1 Identification of the substance/preparation and of the company/undertaking

Trade name: **linelube FS4650 Soluble Cutting Oil Semi-Synthetic (clear)**

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

- Use of the substance/mixture: Water Soluble Metalworking Fluid

Supplier:

Online Lubricants Ltd.
Unit 20, The IO Centre, Barking, London IG11 0DR
UK Tel. +44 (0) 208 507 0123

In case of emergency: +44 (0) 208 507 0123

2 Hazards identification

Not Classified as Skin and Eye Irritant under CHIP 3 regulations.

3 Composition / Information on ingredients

Hazardous component	Cas No	EC No	Index	Risk Phrases	% Weight
Mono Di-Glycol Phosphate Ester Salt			Xi	R36	1 - 10
Base Oil					10 – 30
Distilled Tall Oil	8002-26-4	232-304-6			1 - 10
Biocide			Xn	R20, R20/21	1 –10
Alkyl Dicarboxylate Ionic Complex (Secondary Amine Free)			Xi	R36	1 - 10

4 First-aid measures

Eye Contact: Immediately flush with clean water for 10-15minutes. If irritation persists, obtain medical attention.

Skin Contact: Wash off immediately with water (S20). If the use of metalworking solutions gives rise to irritation or skin rashes, possible contamination and/or usage conditions may need to be investigated.
After use a lanolin based ointment may be applied. Do not use solvents to clean skin. Contaminated clothing should be laundered before use.

Inhalation: Inhalation is unlikely to occur.

Ingestion: Immediately rinse mouth with plenty of water (do not swallow). Water to drink may be beneficial (200-300mls). **Do not** induce vomiting if medical attention can be obtained within a reasonable time i.e. one hour. Seek such attention immediately. If not induce vomiting.

5 Fire Fighting Measures

Flammability: Not classified flammable. If involved in a fire may emit noxious fumes.

Extinguishing Media: Foam, Dry Powder, Co2, sand or earth, water fog (S43).

This safety data sheet serves to complement but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

Protective Equipment: Standard protective equipment.

Products of Combustion: Combustion can produce a variety of compounds including oxides of carbon & nitrogen; chlorine compounds; water vapour; unburnt hydrocarbons; partially oxidised organic compounds and unidentified organic and inorganic compounds, some of which may be toxic.

6 Accidental Release Measures

Do not allow product to soak into drains or water courses. Contain using absorbent granules, sand or earth and transfer to a suitable marked container. Disposal must be in accordance with local regulations and (in the UK) the Environmental Protection Act 1990. Spillages can be slippery.

7 Handling and Storage

Storage Precautions: Store between 5-30ºC. Protect from frost. Store in mild steel or polyethylene containers. Keep out of reach of children.

Handling: Avoid contact with skin & eyes. Observe good standards of industrial hygiene

8 Exposure controls/personal protection

Hazardous Ingredients: Base Oil 5 mg/m3

Distilled Tall Oil: 10 mg/m3

Respiratory Protection: Unlikely to be necessary unless operations generate vapour, mist or fumes where the exposure cannot be controlled by local ventilation measures.

Eyes: Chemical eye goggles should be worn.

Hand: PVC or rubber gloves are recommended.

Skin: Use protective clothing. Remove contaminated clothing and wash with soap and water.

9 Physical and Chemical Properties

Appearance:	Amber liquid	**Specific Gravity @ 20ºc:**	1.02
Odour:	Characteristic	**pH @ 5% emulsion**	9.3
Boiling Point:	>100ºc	**Vapour Pressure:**	Low (not measured)
Flash Point:	>150ºC (closed cup)	**Freezing Point**	Below 0ºC

10 Stability and Reactivity

Stable under normal conditions. Soluble in water.

Hazardous Decomposition: Thermal decomposition can produce a variety of compounds. Incomplete combustion may be expected to generate such materials as: partially matter and unburnt hydrocarbons; oxides of carbon, oxides of nitrogen; water; partially oxidised organic compounds; and other unidentified organic and inorganic compounds.

Conditions to Avoid: Extremes of temperature (store between 5-30ºC). Protect from frost. Do not heat above 60ºC in the presence of aluminium as, in certain circumstances, hydrogen gas could be evolved.

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Materials to Avoid: Strong oxidising agents; strong acids. May soften some rubbers and other elastomeric sealing materials.

11 Toxicological Information

Hazardous Ingredients: **Distilled Tall Oil** **ORL RAT LD50 21.5 ml/kg**
Chronic Toxicity: May cause sensitisation by skin contact.
Routes of exposure: See section 4

12 Ecological Information

Hazardous Ingredients:	Distilled Tall Oil	**Fish**	Zebra Fish	**96H LC50** 5-10mg/l
Mobility:	Readily absorbed into soil			
Persistence & degradability:	Ultimately Biodegradable			
Bioaccumulative potential:	No bioaccumulation potential			
Other adverse effects:	Negligible ecotoxicity			

13 Disposal Considerations

Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product

14 Transport Information

Not Classified as hazardous for road, rail, air or marine transport

15 Regulatory Information

Label for Supply:
Hazard Symbol: No significant hazard
Risk Phrases: R36/38
Safety Phrases: S2: Keep out of reach of children.
S24/25: Avoid contact with skin & eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28 After contamination remove all contaminated clothing and wash with water S37: Wear suitable gloves

16 Other Information

Risk Phrases:
R36/37/38 Irritating to eyes, respiratory system & skin
R36 Irritating to eyes
R20 Harmful by inhalation
R20/21 Harmful by inhalation and in contact with skin
R41 Risk of serious damage to eyes
R50 Very toxic to aquatic organisms

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Do not add other chemicals or materials to the product or dilute emulsions unless recommended. Emulsions should be maintained at the recommended concentration in order to minimise health hazards. In particular, water can evaporate leading to an increase in concentration which may in turn lead to an increased likelihood of skin defatting and irritation. A refractometer can be used to give a convenient check on emulsion strength. During machining, coolant can become contaminated with tramp oil, metal debris and other contaminants which can solubilise in the emulsion, such as chromium, nickel cobalt. Metal particles can abrade the skin, increasing the potential for irritation to occur, whilst oil and metal contamination can increase the possibility of allergic skin reactions. This product contains mineral oil with a published TLV/OES of 5mg/m3 as oil mist. It is advisable to control this level below 2-3mg/m3 to minimise discomfort and nuisance complaints. The information provided in this data sheet has been compiled in accordance with the requirements of the Chemicals (Hazard information and packaging) Regulations, Directive 93/112/EC. This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

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