

safety data sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

NAME OF MANUFACTURER/SUPPLIER:

Varol Lubricants Ltd.
Shelah Road
Halesowen
West Midlands
B63 3PN

Telephone: 0121 550 3443 Fax: 0121 585 5405

Health and Safety Emergency Telephone No.: 0121 550 3406 (out of hours)

PRODUCT NAME: **Varcool 100 M**

PRODUCT TYPE: Soluble Metalworking fluid

APPLICATION: Machining operations, normally mixed with water prior to use.
For additional application information see technical data sheet
or contact your local representative

2. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of highly refined mineral oil, emulsifiers and corrosion inhibitors with non-phenolic coupling agents and performance additives

Hazardous components

Substance	Hazard(s)	Risk Phrases	Concentration
N,N'- Methylene bis morpholine	Xn Xi	R22 R36/38	1 – 10%
Reaction product of rapeseed and diethanolamine	Xi	R36/38	1 – 10%

3. HAZARDS IDENTIFICATION

The product as supplied (concentrate) may cause irritation to the eyes

Exposure to metalworking fluid emulsions can cause irritation of the skin or dermatitis. Occupational asthma and other respiratory disorders may occur following repeated exposure. These risks are increased where fluid quality is not maintained and / or bacterial contamination is not controlled.

4. FIRST AID MEASURES

- Eyes:** Bathe the eye with running water for 15 minutes. Then seek specialist medical examination
- Skin:** Wash thoroughly with soap and water.
- Inhalation:** Remove to fresh air. If effects persist seek medical advice.
- Ingestion:** DO NOT induce vomiting. Wash mouth out with water. Obtain immediate

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Pressure injection: medical attention showing this sheet.
Always obtain immediate medical attention even though the injury may appear minor.

5. FIRE FIGHTING MEASURES

Flammability: Product not classified as flammable but is combustible.
Emulsions are unlikely to burn due to the high water content

Extinguishing media: Use alcohol resistant foam, dry powder, CO₂. Use water fog to cool fire exposed surfaces.

Products of combustion: Predominately oxides of carbon and nitrogen

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Spilt product presents a significant slip hazard. Avoid exposure of the product to sources of ignition

Environmental precautions: Prevent entry into drains, sewers and watercourses. Contain the spillage using bunding

Decontamination procedures: Soak up with inert absorbent such as dry earth or sand.

7. HANDLING AND STORAGE

Observe good hygiene practices and use a suitable barrier cream at regular intervals
Store drum undercover in a cool well ventilated area, If stored outside, a bunded storage area may be required.
Do not expose to extremes of temperature, protect from frost.
Compatible with most common metals. May soften certain rubbers.
Provide suitable mechanical equipment for the safe handling of drums and heavy packages.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace exposure limits (WEL) as specified in EH40 / 2005

<u>Substance</u>	<u>8-Hour TWA</u>	<u>STEL</u>	<u>Other Information</u>
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Engineering control measures:	Local exhaust ventilation is recommended when excessive product misting occurs		
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Personal protection:	<u>Avoid</u> skin and eye contact. Wear impervious gloves (e.g. PVC or nitrile) in case of repeated or prolonged contact. Wear eye protection when handling the undiluted product Change contaminated clothing and thoroughly clean before re-use		
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odour:	Mild, characteristic
Relative Density (@ 20°C)	0.9
Water Solubility:	miscible to form an emulsion
PH	9.5

Typical values, this does not constitute a specification

10. STABILITY AND REACTIVITY

Stability:	Stable, will not polymerise.
Conditions/materials to avoid:	Direct sunlight, strong acids and alkalis, strong oxidizing agents
Hazardous decomposition products:	Irritant fumes. <u>Do not</u> breathe products of decomposition.

11. TOXICOLOGICAL INFORMATION

The following toxicological assessment is based the toxicity of the product's components.
Estimated oral LD50, rat>2g/kg:

HEALTH EFFECTS

On eyes:	Contact with the undiluted product may cause irritation and stinging. There may be potential for corneal damage if not treated promptly. Dilute emulsions are only expected to cause transient irritation.
On skin:	Unlikely to cause harm on brief or occasional contact.
By inhalation	Low volatility makes inhalation unlikely at ambient temperatures.
By ingestion:	May cause nausea, vomiting and diarrhoea.
Chronic:	Repeated and prolonged skin contact may lead to skin disorders particularly where emulsions are not in good condition.

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12. ECOLOGICAL INFORMATION

Biodegradability:	Not determined but based on components not expected to be readily biodegradable
Chemical oxygen demand (mgO₂/l):	Not determined
Ecotoxicity:	Not determined

13. DISPOSAL CONSIDERATIONS

Place used and contaminated materials/packaging in suitable containers. Dispose of the controlled waste in accordance with the Hazardous Waste (England and Wales) Regulations 2005 using a licensed waste disposal company.

European Waste Catalogue Code 120109– Machining emulsions and solutions free of halogens

14. TRANSPORT INFORMATION

Not classified as hazardous for transport

UN number:	Not applicable
Proper Shipping Name:	Not applicable
UN Class:	Not applicable
Packaging group:	Not applicable
Marine pollutant:	Not applicable

15. REGULATORY INFORMATION

Classification:	This product is <u>not</u> classified as hazardous for supply in accordance with 1272/2008/EC
Symbol:	Not required
Risk Phrases:	Not required
Safety Phrases:	S25: Avoid contact with skin and eyes S36/37/39: Wear suitable protective clothing, gloves and eye / face protection

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

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16. OTHER INFORMATION

Full text of risk phrases in section 2

R22 – Harmful if swallowed
R36/38 – Irritating to eyes and skin

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others that may be affected of any hazards in this sheet and of any precautions, which should be taken.

Guidance notes: COSHH essentials for machining with metalworking fluids (MW2)
More information on COSHH (INDG136)
Metalworking fluids website (www.HSE.gov.uk/metalworking/index.htm)
Working safely with metalworking fluids: A guide for employees (INDG365)

The above publications are available from HMSO and HSE Sources.

Disclaimer:

The information in this document has been compiled on the basis of the best of Varol Lubricants knowledge in accordance with the requirements of the Chemicals (Hazard Information and Packaging for supply) regulations 2009. However, no representation, warrant or guarantee is made as to its accuracy, reliability and completeness. It is the user's responsibility to satisfy themselves that the information supplied is suitable and complete enough for the materials intended use.

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This safety data sheet has been revised in the following sections: - 2, 15