

Product Safety Data Sheet

Complies with Directive 1907/2006/EC (UK)

1. Identification of Product & Company

Product name: Cyclo Mineral Oil Brake Fluid 125ml 03039
Intended Use: Brake fluid for bicycles, Blend of highly refined mineral oils, anti-wear/lubricity additives, and viscosity index improver.
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2 Hazard Identification

Physical/chemical hazards: Not Significant
Human health hazards: May cause mild irritation to skin on repeated contact. Aspiration (usually as a result of vomiting) or inhalation of mist can lead to Oil Pneumoconiosis.
Environmental hazards: Large spills may contaminate soil or ground water.

Classification: This product is not classified as hazardous under current EU legislation.

Risk Phrases: n/a

3. Composition / Information of Ingredients

Substance Name	EINECS No.	CAS No.	% Conc. Range	Hazard Symbols	Risk Phrases
Mineral Oil Hydrotreated (IP346 DMSO Extract <3%)	649-482-00	72623-86-0	60 -100	Xn	R65
Hydrotreated Light Distillate	649-221-00	64742-46-7	10-30	Xn	R65
Sterically hindered phenol			0.1 – 1.0	N	R51/53
Dithiophosphoric Acid ester			0.1 – 1.0	N	R51/53

Substances presenting a health hazard within the meaning of the Chemicals (Hazard Information & Packing) Regulations 2002, see under Section 8 of this Safety Data Sheet.

4 First Aid Measures

4.1 Inhalation

Remove to fresh air. If recovery is not rapid seek medical attention.

4.2 Skin Contact

Remove contaminated clothing. Wash affected skin with soap and water. If irritation persists seek medical attention.

4.3 Eye Contact

Flush eye with water for at least 10 minutes. If irritation persists seek medical attention.

4.4 Ingest ion

Obtain medical advice immediately. DO NOT INDUCE VOMITING.

4.5 General/Other

No special measures are required.

5 Fire Fighting Measures

5.1 Suitable Extinguishing Media

Carbon dioxide, foam or water (fog or fine spray). Prevent water spray from entering water courses.

5.2 Unsuitable Extinguishing Media

Direct water jet (although these may be used to cool adjacent containers).

5.3 Exposure Hazards

Combustion products may contain harmful or irritant fumes. Heat from a fire could result in drums bursting.

5.4 Special Protective Equipment

In the event of a large fire self-contained breathing apparatus should be worn.

6 Accidental release measures

6.1 Personal Precautions Being a lubricant, spilt product presents a significant slip or skid hazard-prevent any unnecessary personnel or vehicles entering the area. Precautions should be taken to prevent skin and eye contact when cleaning up.

6.2 Environmental Precautions Prevent entry into watercourses (drains, ditches or rivers etc.). If spillage does enter environment inform Environmental Authority immediately. In the UK this would be the Environmental Agency.

6.3 Methods for Cleaning Up

Contain spillage using inert material (sand, earth etc.). Collection may be by salvage vehicle and/or the use of inert absorbents.

Remove all material to an appropriately labelled salvage container for disposal. Clean contaminated area with plenty of water and detergent.

7 Storage & Handling

7.1 Storage

Suitable bulk storage vessels are mild or stainless steel tanks or tight head steel drums. For smaller quantity resealable tinplated steel or HD Polyethylene containers are recommended. Store away from sources of strong heat and strong oxidising agents. Keep containers tightly closed and avoid contact with any other substance. Take precautionary measures to prevent product entering the environment. In the UK the Oil Storage Regulations may apply.

7.2 Handling

Handling equipment should minimise the formulation of mists. If large quantities of the product are being moved (pumped or decanted) static discharges are possible – especially in dry weather. To avoid this earth bonding of pipework, vessels etc. may be advisable.

8 Exposure Controls & Personal Protection

8.1 Exposure Limits and Controls

Use engineering controls to prevent or minimise aerosol or vapour generation. Ensure good general ventilation.
Occupational Exposure Limit: Oil Mist 5 mg/m³ (8 hr T.W.A.) (EH40-OES) 10 mg/m³ (15 min. T.W.A.) EH40-OES)

8.2 Respiratory Protection

Use respirator designed for combined organic vapour/ -particulate (A2/P2) where significant aerosol or vapour is generated.

8.3 Hand Protection

Suitable protective gloves are PVC or nitrile rubber.

8.4 Eye Protection

Wear close fitting goggles where there is a risk of splashing. Eye baths should be provided at locations where accidental exposure may occur.

8.5 Skin Protection

Where significant exposure is possible wear impervious body covering.

8.6 Environmental Exposure Controls

Appropriate secondary containment should be provided to prevent the product entering the environment. The measures outlined in the Oil Storage Regulations should be adopted where appropriate.

9 Physical & Chemical properties

Tested in accordance with:

9.1 Appearance	Bright green liquid	
9.2 Odour	Oil	
9.3 pH	N/A	
9.4 Boiling Range	250 Deg.C. – 380 Deg.C.	
9.5 Melting Point	< -50 Deg.C.	ISO 7308
9.6 Flash Point:	> 110 Deg.C.	IP35
9.7 Auto-Ignition	> 350 Deg.C. (by analogy)	ASTM D 286 Temperature
9.8 Flammability Limits	Not established but expected to be 1 – 8% in Air	
9.9 Density	0.83 kg/l at 20 Deg.C.	
9.10 Solubility	Insoluble in water.	
9.11 Partition Coefficient	>3	OECD 117 n-Octanol/Water (Log P.O.W.)
9.12 Kinematic Viscosity	18 cSt at 40 Deg.C.	ASTM D 445
9.13 Vapour Pressure	< 0.1 kPa at 20 Deg.C.	Reid
9.14 Vapour Density	Not established	
9.15 Evaporation Rate	Negligible	

10 Stability & Reactivity

10.1 Conditions to avoid

Product is stable under normal conditions. Prevent exposure to strong sources of heat.

10.2 Materials to Avoid

Strong oxidising agents or strong acids.

10.3 Hazardous Decomposition Products Decomposition products which can be formed on heating include Carbon monoxide, Carbon dioxide and oxides of nitrogen or sulphur.

11. TOXICOLOGICAL INFORMATION (Comments may be based on analogy with similar products)

11.1 Eye Contact

May cause mild irritation, but not classified as an eye irritant. (Test method OECD 405).

11.2 Skin Contact Unlikely to cause harm to the skin on brief contact but prolonged or repeated contact can cause irritation and/or dermatitis. Mineral oil can block skin pores leading to Oil Acne. Not known to be a sensitizer. LD50 Rabbit = > 2000 mg/kg.

11.3 Ingestion Product is of relatively low acute oral toxicity when swallowed. It may cause nausea, vomiting or diarrhoea. LD 50 Rat = > 5000 mg/kg.

11.4 Inhalation Unlikely to be hazardous by inhalation at ambient temperatures due to low vapour pressure. Inhalation at higher temperatures may cause irritation to the respiratory tract. Aspiration of the product into the lungs (usually as a result of vomiting) can lead to fatal Oil Pneumoconiosis -seek medical attention immediately.

11.5 Chronic or Long Term Toxicity

General – Not expected to display significant long term toxicity.

Carcinogenicity Not known to be carcinogenic.
Mutagenicity Not known to be mutagenic.
Reproductive Toxicity Not known to be toxic in this regard

12 Ecological Information

12.1 Ecotoxicity Acute toxicity to aquatic or soil organisms is expected to be low, however oil spills can smother and suffocate by preventing passage of oxygen and water. Oil contamination can also foul and smother birds and marine animals.

12.2 Mobility Insoluble in water on which it floats. Does not evaporate from water or soil. Limited mobility in soil but some components may penetrate the soil and cause groundwater pollution.

12.3 Persistence/Degradability Product is inherently but not readily biodegradable. Should not be admitted into biological waste treatment plants.

12.4 Bioaccumulative Potential

Base oil hydrocarbons possibly accumulative. Log POW > 6.

13 Disposal Consideration

Controlled incineration or recycling is recommended. Under no circumstances should this product be disposed of to drains, soil or water courses. It may be advisable to seek advice from Local Waste Authority before disposal.

13.3 Regulations

Dispose of in accordance with local and national regulations. In the E.U. used mineral oils are classified as hazardous waste (Directive 91/689/EEC), while the Waste Framework Directive (75/442/EEC) also applies.

14 Transport Information

14.1 U.K./E.U. Regulations	Not classified
14.2 UN No./Class	None
14.3 ADR/RID	Not classified
14.4 IMO/IMDG	Not classified
14.5 Marine Pollutant	No
14.6 IATA/IACO Class	Not classified

15 Regulatory Information

15.1 E.U. Classification (U.K. – CHIP 3) Not classified as hazardous for supply. Risk Phrases N/A Safety Phrases N/A

15.2 Restrictions on use or Exposure

To be in accord with local and national regulations. In the U.K. this would include the HSWA and COSHH.

15.3 Other

While the product is not officially classified as dangerous for supply, the following risk and safety phrases are strongly recommended: Keep out of the reach of children.

Contains Petroleum Distillates – If swallowed seek medical advice immediately and show this container or label.

16 Other Regulations

Text of any Risk phrases listed in section 2:

R65 Harmful: may cause lung damage if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information contained in this Safety Data Sheet is provided in accordance with the Chemicals (Hazards Information and Packaging) Regulations 2002. The product may not be used for purposes other than those shown in sect. 1, without first referring to the supplier and obtaining written instructions. As the specific conditions of use of this product are outside of the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environment aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.