

PO Box 14527, Wadeville 1422
562 Crocker Road
Wadeville

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MATERIAL SAFETY DATA SHEET

Fleetline Syncool B

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Syncool B
Product Use: Water extendable metalworking fluid/ lubricant concentrate
Manufacturer/Supplier: OILFLOW cc
P.O. Box 14527
562 Crocker Road, Wadeville, Germiston, South Africa
1422
Health Emergency Telephone: 011 827 5848
Oilflow Website: www.oilflow.co.za

2.COMPOSITION / INFORMATION ON INGREDIENTS

This product is manufactured from highly refined mineral base oils, emulsifiers and corrosion inhibitors, with non-phenolic coupling agents and additional performance additives.

Components Include:	Wt %	Exposure Limits
Diethanolamine esters and reaction products m ³	25 – 60	Diethanolamine TWA: 3ppm / 13mg /
Diethylene glycol	1 – 10	TWA: 23ppm / 100mg / m ³
Highly refined mineral oil	25 – 60	Oil Mist: TWA 5mg / m ³

3.HAZARDS IDENTIFICATION

Health and Safety: The concentrate is strongly irritating in the eye with a potential to cause corneal injury if treatment is not prompt. The concentrate may cause irritation to the skin, which could become more intense if not promptly removed or if contact is frequent or prolonged.

Environmental: The product contains mineral oil, which will not readily biodegrade in anaerobic conditions and therefore can be environmentally persistent. For further information, refer to Section 12 Ecological information.

Special Hazards: During use, metalworking emulsions may become contaminated with metal particles and metal salts, other lubricants, and microbiological contaminants. These may increase the irritancy of the emulsion, and in some cases (e.g. contamination by chromium, cobalt and nickel) may be capable of inducing other additional hazards. Small amounts of nitrosamines may be formed if sodium nitrite is added.



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4. FIRST AID MEASURES

- Eyes:** Immediately wash eye thoroughly with plenty of clean water ensuring eyelids are held open. For contact with diluted fluid, obtain medical attention if irritation or redness persists, or as an additional precaution.
- Skin:** Following contact with the undiluted product, wash thoroughly with soap and water without delay. Remove heavily contaminated clothing. Wash / launder contaminated clothing before re-use. If irritation persists, obtain medical advice. If the use of metalworking emulsions gives rise to irritation or skin rashes, obtain medical advice.
- Inhalation:** For effects produced by over-exposure, move to fresh air. If effects persist, obtain medical advice.
- Ingestion:** DO NOT INDUCE VOMITING. Wash out mouth with water and obtain medical attention. Milk or water to drink may be beneficial. Treat symptomatically. If the product is aspirated into the lungs (e.g. during vomiting), send to hospital immediately.

Note for Doctors: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammability: High-energy sources may induce combustion of the undiluted product. The diluted emulsions do not support combustion.

Flash Point: > 120°C (Closed Cup)
Autoignition Temp: > 180°C
Flammability Limits: Not Established

Extinguishing Media: **Large Fires:** Foam or water fog – DO NOT USE WATER JETS.

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

Special fire



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Hazards	Large surface areas exposed to air / oxygen (e.g. oil-soaked rags, paper or absorbed spillages) may be easily ignited and these should be cleared up at once.
Special fire Fighting procedures	Firefighters should wear self-contained breathing apparatus. Do not spray water directly into storage containers due to boil over danger. Water may be used to cool nearby containers / surfaces.

6. ACCIDENTAL RELEASE MEASURES

Small spills	Prevent entry to drains or watercourses. Spillages can be slippery. Soak in absorbent granules or sand.
Large spills	Bund using absorbent granules, sand or earth. Reclaim liquid directly or soak in an absorbent medium, and transfer to a suitable, marked container.
Disposal of spillage	By incinerating or via an authorised / licensed waste disposal contractor. Disposal must be in accordance with local regulations.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes – wear protective gloves and chemical goggles when handling the undiluted product.
Storage	Store in dry conditions protected from frost and elevated temperature. Store in original containers or in other mild steel or high-density polyethylene containers, which are closable and clearly labelled.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	The product does not have an established Occupational exposure (OES), Maximum Exposure Limit (MEL), or Threshold Limit Value (TLV). However, it is derived from components, which have individual established OES's / TLV's (see section 2).
Eyes	Wear chemical goggles when handling the undiluted product or if there is a risk of splashing with the diluted product.
Skin	Wear impervious gloves when handling the undiluted product. Prolonged or repeated contact with diluted metalworking fluid emulsions is often unavoidable – the use of appropriate skin protective and reconditioning creams may be beneficial, and gloves should be considered whenever their use is practical and safe. Change heavily contaminated clothing and overalls as soon as possible.



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Inhalation	Respiratory protection is not normally required. However, suitable respiratory equipment should be provided for those operations which generate vapour, mists or fumes and where exposure cannot be adequately controlled by local exhaust ventilation or other means.
Industrial Hygiene	Adopt normal good working practices and personal hygiene standards. Wash hands after use, before eating, drinking, or smoking, and before and after using the toilet. Contaminated clothing should be laundered before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue liquid
Odour	Mild
Flash point	> 120°C (Closed Cup)
Boiling point	> 100 (°C) @ 20 °C
Viscosity	125(cSt) @ 40 °C
Water solubility	Miscible with water
pH	9.4 @ 3% solution.
Alkalinity	Slightly alkaline

10. STABILITY AND REACTIVITY

Stability	This product is stable and unlikely to react in a hazardous manner under normal conditions of use.
Conditions to avoid	Extremes of temperature (preferably, store between 5 and 40 °C). Protect from frost
Materials to avoid	Strong oxidising agents (e.g. chlorates, peroxides); strong acids. May soften some rubbers and other elastomeric sealing materials.
Decomposition products	Thermal decomposition can produce a variety of compounds, the nature of which will largely depend on the conditions bringing about decomposition. Incomplete combustion or thermal decomposition may be expected to generate such materials as: particulate matter and unburnt hydrocarbons; oxides of carbon; oxides of nitrogen; water; partially oxidised organic compounds; and other unidentified organic and inorganic compounds.



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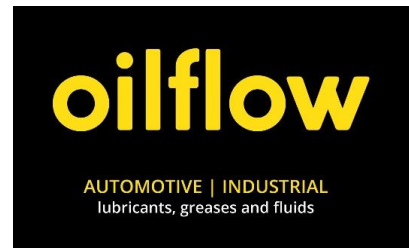
11. TOXICOLOGICAL INFORMATION

Eyes	Eye contact with the undiluted product may cause strong irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness.
Skin	Dermol LD50: > 2500 (rabbits, expected LD50) Contact with the concentrate may cause moderate irritation. Prepared emulsions are surface active and slightly alkaline, and prolonged or repeated contact with them, especially if the emulsions are over-strength, may cause defatting of the skin, slight irritation and dermatitis.
Inhalation	Inhalation LC50: Not established The product is unlikely to present any significant inhalation hazard at ambient temperatures. High temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposures to oil mists may cause respiratory damage and a condition resembling pneumonia.
Ingestion	ORAL LD50: > 2500 (rats, expected LD50) The product has a low order of acute oral toxicity – ingestion is not regarded as a significant health hazard likely to arise in normal use. Swallowing significant quantities may cause discomfort, nausea, irritation of digestive tract, and diarrhoea. Aspiration into the lungs caused by vomiting or regurgitation following ingestion can be hazardous with possible resultant chemically induced pneumonia.
Chronic Toxicity	There are no reports of long-term adverse toxic effects in man attributable to the use of this type of product.
Carcinogenicity	No carcinogenic effects are normally anticipated with this type of product. All mineral oils incorporated in the product have been highly refined.
Note:	Contamination of emulsions during use may introduce additional hazards.



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12. ECOLOGICAL INFORMATION

Biodegradability See Below

Chemical Oxygen
Demand (mg / L) No data

Water The individual components range from readily to poorly biodegradable. Mineral oil has limited biodegradability when tested by method CEC L-33-T-82. The components are not expected to be highly toxic to aquatic life. If released to water, the product may deplete the oxygen supply to bottom dwelling organisms. Nitrosamines may be formed with the nitrogen content in the water or in the presence of nitrites. The product contains a small amount of boron: water-soluble borates are widely distributed naturally in the soil and sea.

Soil Small quantities will be absorbed in the upper soil layers where biodegradation may take place. Larger quantities may penetrate anaerobic soil layers in which some of the organic compounds (e.g. mineral oil) may persist. Whilst many of the components have a high soil absorption coefficient, some will be capable of penetrating the soil to cause ground water contamination. Mineral oil can have a potential to bioaccumulate. Boron is an essential micronutrient for plants – but it is phytotoxic in higher concentrations.

13. DISPOSAL CONSIDERATIONS

Note: All means of disposal should comply with local regulations.

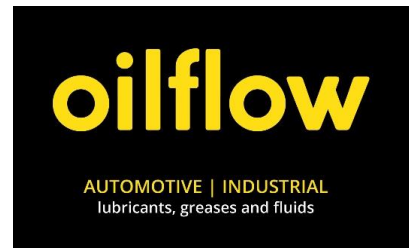
Undiluted
Product The product may be incinerated in suitable equipment and under controlled conditions. Alternatively, the product can be disposed of via an authorised person / licensed waste disposal contractor.

Diluted Fluid Dispose via an authorised person / licensed waste disposal contractor. Alternatively, emulsions can be treated in an appropriate effluent facility (e.g. chemical splitting or ultrafiltration) to separate mineral oil and other components from the water phase. The clarified water phase may contain dissolved salts, surfactants, trace hydrocarbons, and other dissolved materials. It should not be discharged into sewage systems without the approval of the appropriate local authority and without checking for compliance with issued consent conditions. Further treatment may be required. The non-aqueous phase can be disposed of as for the undiluted product.



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14. TRANSPORT INFORMATION

ADR Classification	Not classified as dangerous goods
UN Classification	Not classified
Marine Pollutant	No
UN Shipping Name	Not classified as dangerous goods
UN Number	Not Applicable
UN Labels	Not Applicable
UN Pack group	Not Applicable
IMO / IMDG Class	Not classified as dangerous goods
IATA / CAO	Not classified as dangerous goods

15. LABELLING INFORMATION

Classification	xi: Skin and Eye irritant
Risk Phrases	R36/38: Irritating to eyes and skin
Safety Phrases	S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Note:	The above classification applies to the undiluted product as supplied. It does not apply when the product is diluted for use at the correct operating strength.

16. OTHER INFORMATION

- (1) Good coolant control can help to minimize health hazards.
- (2) Do not add materials to the emulsion unless recommended to do so.
- (3) Maintain emulsions at the recommended concentrations (refractometer checks).
- (4) Minimize tramp oil and other contamination.
- (5) Remove swarf and debris from machines at regular intervals – these may abrade the skin and increase the perceptibility to irritation effects.
- (6) Implement proper procedures for regular draining and cleaning of machine tool coolant systems.
- (7) During machining, emulsions may become contaminated with certain metals, which are present in the workpieces or tools. These may solubilize in the emulsions. Some of these contaminants (e.g. chromium, nickel, and cobalt) can induce allergic skin reactions. Some may also introduce an increased risk to health if excessive exposure to mists occurs.

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