

Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron MANUAL CONCENTRATE**

Other Names: **MANUAL CONCENTRATE FMC– 50 ml tube**

Recommended Use: This treatment helps extend the life of bearings, gears and seals. Helps protect against shock loading, wear, gumming, rust and corrosion. Gearboxes change smoother, run cooler and quieter.

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2. HAZARDS IDENTIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

Hazardous Identification: Not classified as Hazardous

Risk Phrase:

Safety Phrase:

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Butyl Oleate, sulphurised	84712-58-3	> 60%
Highly refined paraffinic mineral oil	64742-65-0	10 to 30%
Proprietary Copper Corrosion Inhibitor		< 10%

4. FIRST AID MEASURES:

Swallowed:	If swallowed DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention. For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 03 4747 000 (Not after May 2005) or 0800 764 766; or a doctor (at once).
Eye:	If contact with the eye(s) occur, immediately hold the eye open and wash continuously for at least 15 minutes with fresh running water. Seek medical attention.
Skin:	Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists, seek medical attention.
Inhaled:	Remove the patient to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek medical attention.
First Aid Facilities:	No special requirements. Normal safety facilities. Safety shower, mild soap and eye wash facilities.
Advice to Doctor:	Practically non-toxic. Not carcinogenic. Refer to first aid above.

5. FIRE FIGHTING MEASURES:

Flashpoint:	> 150°C (PMCC) Classified as C2 (Combustible Liquid)
Extinguishing Media:	Dry chemical, foam or carbon dioxide.
Unusual Fire & Explosion Hazards:	Incomplete combustion can produce carbon monoxide, hydrogen sulphide and sulphur dioxide.
Fire Fighting Precautions:	Fire fighters should wear self-contained Breathing Apparatus (SCBA) and full protective clothing should be worn.
Hazchem Code:	None Allocated

6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures:

Methods and Materials for Containment and Clean Up:-

Small Spills: (20 litres or less) Soak up with inert oil absorbent. Arrange for disposal through an approved facility.

Large Spills: (Greater than 20 litres) Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways contact the Environment Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE:

Precautions for Safe Handling: Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact, maintain high standards of personal hygiene i.e., washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.

Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.

Conditions for Safe Storage: Classified as a combustible substance for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising material). Reference should be made to Australian Standard AS1940. The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards: None established for the product as per the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for constituents/hazardous decomposition products are listed below:-

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Oil mist, mineral	-	5	-	10
Hydrogen sulphide	10	14	15	21

8. EXPOSURE CONTROLS/PERSONAL PROTECTION: - continued

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).

Time-weighted average (TWA) is defined as the concentration of that substance over an eight-hour working shift, and apply to an eight-hour day, for a five-day working week over an entire working lifetime. Short Term Exposure Limits (STEL) and Peak Limitations may also be specified for short periods of exposure such as 15 minutes.

Engineering Controls: The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits.

Personal Protective Equipment:

Respiratory Protection: Avoid breathing vapours or mists. Select and use respirators in accordance with AS/NZS 1715 and AS/NZS 1716. When vapours are generated the use of the following is recommended: Half face piece respirator with dust/mist filters. The filter capacity and respirator type depend on exposure levels.

Hand Protection: Use of impervious rubber gloves is recommended.

Skin Protection: Clothing should be suitable to avoid product contacting the skin on a prolonged or repeated basis.

Eye Protection: Chemical safety goggles are recommended. If handled hot, a full-face shield should be worn.

Hygiene Recommendations: Keep an eye wash fountain available. Keep safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Dark brown viscous liquid
Odour:	Distinct
pH:	Not determined
Vapour Pressure:	Not available
Vapour Density:	Not available
Boiling Point:	> 250°C
Melting Point:	Not available
Solubility in Water:	< 0.1 g/l
Specific Gravity:	0.95 g/cm ³ approx
Flashpoint:	> 150°C (PMCC)
Flammability Limits:	LEL Not available UEL Not available
Pour Point:	-2°C (max)
Viscosity:	Approx 9 mm ² /s @ 40°C

10. STABILITY AND REACTIVITY:

Chemical Stability:	Slow polymerisation may occur over time, leading to a slight increase in the viscosity of the product.
Conditions to Avoid:	None Allocated.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Incomplete combustion can produce carbon monoxide, hydrogen sulphide and sulphur dioxide.
Hazardous Reactions:	No hazardous polymerisation will occur.

11. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.
Eye:	Will cause eye discomfort, but will not injure eye tissue.
Skin:	Prolonged or frequent contact may cause skin irritation or cracking to sensitive skins.
Inhaled:	Remove the patient to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek medical attention.
Chronic:	Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

11. TOXICOLOGICAL INFORMATION: - continued

Toxicology: The classification as a carcinogen need not apply in this case as the main constituents in the product is in accordance with Note L of the NOHSC Designated List of Hazardous Substances (containing less than 3% DMSO extract as measured by IP 346)

This product may release hydrogen sulphide. The hazards are summarised below, refer to a material safety data sheet on hydrogen sulphide for addition information if required.

The primary hazard is inhalation overexposure. Odour is an unreliable indicator of concentration as olfactory fatigue occurs rapidly. Inhalation at airborne levels of approximately 50-70 ppm may result in irritation of the eyes and respiratory tract mucosa. Overexposure to higher concentrations may produce signs and symptoms of headache, dizziness, nausea, vomiting, coughing and a sensation of dryness and a pain of the nose, throat and chest. An atmosphere containing 1000 – 2000 ppm hydrogen sulphide may be immediately hazardous to life.

Prolonged or frequently repeated exposure may result in chronic health effects characterised by local irritation of the eyes, respiratory tract and skin. Small amounts of hydrogen sulphide can be absorbed through the skin, but absorption is too slow to result in poisoning.

12. ECOLOGICAL INFORMATION:

Ecotoxicity: No ecotoxicological classifications.

Persistence and Degradability: No data available.

Mobility: No data available.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers: Dispose of waste according to federal, EPA, state and local regulations. Assure conformity with all applicable regulations.

Special Precautions for Landfill or Incineration: None allocated.

14. TRANSPORT INFORMATION:

UN Number: None Allocated

UN Proper Shipping Name: None Allocated

Class and Subsidiary Risk: None Allocated

Packaging Group: None Allocated

Special Precaution for user: None Allocated

Hazchem Code: None Allocated

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14. TRANSPORT INFORMATION: - continued

Not classified as a Dangerous Good according to Australian Code for the Transport of Dangerous Good by Road and Rail.

15. REGULATORY INFORMATION:

Statement of Hazardous Nature: Not classified as a Dangerous Good according to Australian Code for the Transport of Dangerous Good by Road and Rail.

AICS: All ingredients present of AICS.

16. OTHER INFORMATION:

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