



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron DIFFERENTIAL TREATMENT CONCENTRATE**

Other Names: **DIFFERENTIAL TREATMENT CONCENTRATE FDC- 50 ml tube**

Recommended Use: Fortron Differential Concentrate is a balanced concentrate of anti-wear, anti-scuffing, extreme pressure, lubricity, non foaming and viscosity modified treatment. Differential Concentrate is an industry tested and approved material against A.P.I. service classification GL4-GL5 (and now superseded GL6) US Military MIL-L-21058 and CS-3000B requirements also meeting A.C.M.A. requirements. Added to normal differential oil provides additional protection against lubricant film rupture under conditions of shock loading. Unlike some extreme pressure lubricant assistances, Differential Concentrates give protection under lower load conditions. Extreme pressure additives require temperature and pressure to initiate a reaction, which produces the extreme pressure protection. Differential Concentrate contains Shear-Stable Polyisobutylene Viscosity Index Improves, Anti-Rust, Anti-Corrosion and Anti-Oxidation properties. Designed scientifically to provide maximum lubrication and friction to all vehicles final drives and differentials requiring and E.P. (extreme pressure) oil ie API GL4 and GL5 specifications.

Supplier: Fortron Automotive Treatments Pty Ltd
14-18 Sangiorgio Court, Osborne Park
Perth, Western Australia 6017
ACN 008 872 197 ABN 12 008 872 197

Phone: (618) 9202 7800 (Monday – Friday 8.00am – 5.00pm)

Fax: (618) 9202 7851
www.fortron.com.au

Emergency Telephone No: 0433 088 498

2. HAZARDS IDENTIFICATION:

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

Hazard Symbol: Xi Irritant

Risk Phrase: R36 Irritating to eyes.

Safety Phrase: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Chemical Description</u>	Amine, Phosphate, Borate in aqueous solution	
<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Mineral Oil	Mixture	1.0 – 5.0
Alkyl phosphate	Proprietary	5.0 – 10.0
Long chain alkenyl amine	Proprietary	1.0 – 5.0
Long chain alkyl amine	Proprietary	5.0 – 10.0
Alkyl dithiothiadiazole	Proprietary	1.0 – 1.0
Alkyl methacrylate	Proprietary	0.1 – 5.0

4. FIRST AID MEASURES:

Swallowed: If affected person is conscious, give plenty of water to drink. Drink two large glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

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: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.

Inhaled: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

First Aid Facilities: Safety shower, mild soap and eye wash facilities.

Advice to Doctor:

5. FIRE FIGHTING MEASURES:

Flashpoint: 76°C (Closed Cup)

Extinguishing Media: In case of fire, use water spray (fog), foam, dry chemicals, or CO₂.

Unusual Fire & Explosion Hazards: Hazardous Decomposition Products
These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...), sulfur oxides (SO₂, SO₃...), phosphates. Some metallic oxides.

Fire Fighting Precautions: Fire fighters should wear positive NIOSH approved self-contained breathing apparatus (SCBA) and full turnout gear.

Hazchem Code: None Allocated



6. ACCIDENTAL RELEASE MEASURES:

Emergency Procedures: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.

Methods and Materials for Containment and Clean up:-
Small Spills: If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal.

Large Spills: For large spills dyke spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

7. HANDLING AND STORAGE:

Precautions for Safe Handling: Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. To avoid fire, minimize ignition sources.

Conditions for Safe Storage: Keep containers tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep container in a well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards:

Note established for the product.

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.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION: continued

The following component(s) have been assigned an exposure standard by NOHSC (Exposure Standards for Atmospheric Contaminants in the Occupational Environment) and/or other Agencies.

SUBSTANCE	Occupational Exposure Limits	TWA mg/m ³	STEL mg/m ³
Mineral Oil	ACGIH	5	10
Mineral Oil	OSHA	5	

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value.

Personal Protective Equipment: *Respiratory Protection:* Respiratory protection is not normally needed but if there is a potential to exceed the exposure limit(s) an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716.

Hand Protection: Use chemical resistant, impervious gloves.

Skin Protection: Disposable outer garments when there is the potential for contact with the material.

Eye Protection: Safety goggles are considered minimum protection. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

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:	Clear yellow liquid
Odour:	Aromatic mineral oil odour
pH:	Not determined
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Solubility in Water:	Insoluble in cold water
Specific Gravity:	1.082 @ 15.6°C
Flashpoint:	76°C (closed cup)
Flammability Limits:	LEL Not applicable UEL Not applicable
Auto Ignition Temperature:	Not applicable
Viscosity:	9 cSt @ 100°C



10. STABILITY AND REACTIVITY:

Chemical Stability: Stable.

Conditions to Avoid: High temperatures, sparks and open flames.

Incompatible Materials: Strong oxidizing and reducing agents.

Hazardous Decomposition Products: Under fire conditions: These products are carbon dioxide (CO, CO²), nitrogen oxides (NO, NO²...), sulfur oxides (SO², SO³...), phosphates. Some metallic oxides.

Hazardous Reactions: Not determined.

11. TOXICOLOGICAL INFORMATION:

Routes of Entry: Inhalation. Ingestion.

HUMAN HEALTH HAZARDS - ACUTE

Swallowed: Not determined.

Eye: Irritating to the eyes. Based on test data for this or similar products.

Skin: Not irritating to the skin. Based on test data for this or similar products.

Inhaled: Irritating to respiratory system. (Does not meet EU classification criteria).

Chronic: Adverse effects: Not determined.

Carcinogenicity: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Human Hazard Characterisation: May cause damage to the following organs : gastrointestinal tract, upper respiratory tract, eyes.

12. ECOLOGICAL INFORMATION:

Ecotoxicity: Not classified as dangerous for the environment according to EC criteria. Based on calculation.

Persistence and Degradability: This product contains components, which may be persistent in the environment.

Mobility: No studies have been conducted on this product.



13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers: Dispose of in accordance with local, state, and federal regulations. Dispose of wastes in an approved waste treatment/disposal site, in accordance with all applicable regulations.

Special Precautions for Landfill or Incineration: Do not dispose of wastes in local sewer or with normal garbage.

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

Land Transport (ADG):
Proper Shipping Name: Product is not regulated during transportation.

Air Transport (ICAO/IATA):
Proper Shipping Name: Product is not regulated during transportation.

Marine Transport (IMDG/IMO):
Proper Shipping Name: Product is not regulated during transportation.

15. REGULATORY INFORMATION:

Statement of Hazardous Nature: Not classified as Hazardous according to the criteria of Worksafe Australia.

EU Regulations:

Hazard Symbols: Xi Irritant

Risk Phrases: R36 Irritating to eyes.

Safety Phrases: S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

US Regulations: No SARA 313 chemicals are present above the reporting threshold. SARA 311/312 MSDS distribution – chemical inventory – hazard identification. Immediate health hazard. Fire



15. REGULATORY INFORMATION: continued

State: California prop 65 (no significant risk level): 2-Propenoic Acid, Ethyl Ester
**Alkyl acrylate
California prop 65 (acceptable daily intake level): 2-Propenoic Acid, Ethyl
Ester**Alkyl acrylate

Canadian Regulations: WHMIS (Classification) Not determined.

International Inventory Status:

United States	All components on TSCA Inventory
Canada	All components on DSL
Europe	All components on EINECS
Japan	All components on MITI or MOL
Australia	All components on NICNAS
Korea	All components on ECL
China	All components on IECSC
Philippines	All components on PICCS

16. OTHER INFORMATION:

Date of Issue: 30th July, 2009

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Please Note:

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