



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

Product Name: **Fortron BIG ORANGE DEGREASER**

Other Names: **BIG ORANGE DEGREASER
FBOD200 – 200 litre drum
FBOD20 – 20 litre container
FBOD25 – 25 litre container**

Recommended Use: Fortron Big Orange Degreaser is a powerful water based degreaser formulated for effective removal of heavy grease and soil deposits. Fortron Big Orange Degreaser has the unique combination of natural citrus cleaning power and biodegradable quick break properties. The extra heavy duty formula will give excellent performance in almost any application.

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2. HAZARDS IDENTIFICATION:

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC.

Hazard Identification: Irritant

Risk Phrase: R36 Causes irritation to eyes
R38 Causes irritation to skin

Safety Phrase: S1/2 Keep locked up, keep out of reach of children
S13 Keep away from food and drink
S24/25 Avoid contact with skin and eyes
S36 Wear suitable protective clothing
S37 Wear suitable gloves
S39 Wear eye/face protection
S45 In case of emergency, seek medical advice

3. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion % w/v</u>
Alkaline Salts	6834-92-0	<10% w/v
Dipropylene Glycol Methyl Ether	34590-94-8	<10% w/v
Non Hazardous Components (surfactants, dye, water)		>60% w/v

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)
Hazard Classification: Hazardous substance, Irritant, Non dangerous goods.

Class: Not applicable
Poison schedule (Aust): 5

4. FIRST AID MEASURES:

Swallowed:	If swallowed DO NOT induce vomiting. Rinse or wash out mouth with plenty of water after which if victim is conscious induce copious drinking of water. Seek medical attention. For advice, contact a Poisons Information Centre. Phone Australia 13 1126; New Zealand 0800 764 766; or a doctor (at once).
Eye:	If contact with the eye(s) occurs, immediately hold the eye open and wash continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Seek medical advice.
Skin:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice. If swelling, redness, blistering, or irritation occurs seek medical advice.
Inhaled:	Move patient from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If
First Aid Facilities:	Eye wash facilities and normal wash room facilities.
Advice to Doctor:	Treat symptomatically and as for alkaline corrosive material



5. FIRE FIGHTING MEASURES:

Extinguishing Media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide), dry chemical powder.

Fire Fighting Precautions: Non combustible In fire situations keep containers cool with water drench or spray. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or products of combustion.

Hazchem Code: 2R

6. ACCIDENTAL RELEASE MEASURES:

Slippery When Spilt: Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination. Contain using sand and soil – prevent runoff if significant quantities into drains and waterways. For small spills, hose away with copious amounts of water. Use absorbent (soil or sand, inert material, vermiculite). Collect and seal in properly labelled containers for disposal.

7. HANDLING AND STORAGE:

Precautions for Safe Handling: Avoid skin and eye contact. Wear protective clothing. PVC gloves and chemical goggles. Keep containers closed at all times.

Observe good occupational hygiene. Wash hands before eating and remove contaminated clothing before entering eating areas.

Conditions for Safe Storage: Classified as Non Dangerous for the purpose of transport by road or rail.

Store in a cool place away from foodstuffs and acids.

Do not store in aluminium or galvanised containers or use die-cast zinc or aluminium bungs. Plastic or steel bungs should be used.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

National Exposure Standards:

Not established for this product.

However, exposure standard for constituent: Dipropylene Glycol Methyl Ether).

Absorption through skin may be a significant source of exposure.

SUBSTANCE	OEL	TWA		STEL	
		ppm	mgm/m3	ppm	mgm/m3
Dipropylen Glycol Methyl Ether		100	606	150	909



8. EXPOSURE CONTROLS/PERSONAL PROTECTION: - CONTINUED

Exposure Standard is a guide to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls: Ensure good ventilation when using product to maintain Dipropylene Glycol Methyl Ether. Vapour is heavier than air.

Personal Protective Equipment: Avoid skin and eye contact. Wear protective clothing, closed footwear, PVC gloves and chemical goggles when handling neat product.

Hygiene Recommendations: Keep an eye wash fountain available.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Orange viscous liquid
Odour:	Citrus odour
Solubility:	Infinite
pH:	13.5
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Boiling Point:	Not determined
Melting Point:	Not determined
Solubility in Water:	Soluble
Specific Gravity:	1.05
Flashpoint:	Not flammable
Flammability Limits:	Not applicable
% Volatile by volume:	80

10. STABILITY AND REACTIVITY:

Stability: Fortron Big Orange Degreaser when stored in a cool area is a stable product and will not deteriorate within a reasonable time. Avoid conditions of heat and freezing. Avoid contact with aluminium, zinc, brass, galvanized and painted surfaces and acids.

11. TOXICOLOGICAL INFORMATION:

HUMAN HEALTH HAZARDS - ACUTE

Swallowed: Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, swelling of the larynx, burns to oesophagus and stomach.

11. TOXICOLOGICAL INFORMATION: - CONTINUED

Eye:	A severe eye irritant. Contamination of the eyes may result in permanent injury.
Skin:	Contact may result in severe reaction. Repeated or prolonged skin contact may lead to irritant contact dermatitis. Corrosive to skin – may cause skin burns. Skin contact often does not cause pain, thus care should be taken to avoid contaminating gloves and boots.
Inhalation:	Inhalation of mists may result in respiratory irritation and possible harmful corrosive effects.
Long Term Effects:	No data available.
Acute Chronic Toxicity:	No data available.
For Components:	Sodium Metasilicate – Oral LD ₅₀ = 1500-3200mg/kg (RAT) Dipropylene Glycol Methyl Ether Oral LD ₅₀ = 5000mg/kg (RAT) Inhalation LC ₅₀ = 55-60mg/l/4hrs (RAT)

12. ECOLOGICAL INFORMATION:

Ecotoxicity:	No data available.
Persistence and Degradability:	No data available.
Mobility:	No data available.

For component Dipropylene Glycol Methyl Ether (DGME) the following data is available.
Toxicity to fish LC₅₀ (Pimephales promelas = > 10000mg/l/96hrs Environmental protection)
Behaviour and environmental fate: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Inhibition of respiration in activated sludge = EC₂₀ = > 1000mg/l (ISO 8192/OECD 209/EEC 88/302 C). This product does not contain organically bound halogen. Elimination information – Test method: OECD 302B/ISO 9888/EEC 88/302 C. Degree of elimination = 90 - 100% Evaluation = easy to eliminate test method: OECD 301E/EEC 84/4449, C.3
Method of analysis: DOC reduction. *Degree of elimination* = > 70% = biodegradable.

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS:

Disposal Methods and Containers:	Refer to State Land Waste Management Authority. May be greatly diluted or carefully neutralized with dilute acid and flushed to drain with copious amounts of water. Alternatively, normally suitable for disposal at approved land waste site.
Special Precautions for Landfill or Incineration:	No special precautions.

14. TRANSPORT INFORMATION:

UN Number: Not applicable
UN Proper Shipping Name: Not applicable
Class and Subsidiary Risk: Not applicable
Packaging Group: Not applicable
Hazchem Code: Not applicable
Poisons Schedule: S5

Classified as Non Dangerous Goods for the purpose of transport by road or rail.

15. REGULATORY INFORMATION:

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

Hazard Category: Irritant

Risk Phrase: R36 Causes irritation to eyes
R38 Causes irritation to skin

Safety Phrase: S1/2 Keep locked up, keep out of reach of children
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S24/25 Avoid contact with skin eyes
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16. OTHER INFORMATION:

Date of Issue: 31st October, 2007
MSDS Number: MSDS:216
Issue Number: B
Reason for Re-issue: General review and correction of Dangerous Goods classification in Section 7.

Please Note:

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