



# Material Safety Data Sheet

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER:

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Product Name: **Fortron VACTEK**

Other Names: **PETROLEUM PRODUCTS N.O.S.  
VACTEKB – 205 litre drum  
VACTEK – 325ml bottle**

Recommended Use: Vactek is a concentrated formula of detergent based cleaners designed to clean combustion chambers, top rings and valves. This product also contains a powerful lubricant.

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 8.30am – 5.00pm)  
Fax: (618) 9202 7851  
[www.fortron.com.au](http://www.fortron.com.au)

Emergency Telephone No: 0433 088 498

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## 2. HAZARDS IDENTIFICATION:

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**CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF NOHSC, AND AS DANGEROUS GOODS ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS CODE**

Hazard Identification:

Risk Phrase: R10 Flammable  
R38 Irritating to skin  
R65 Harmful: may cause lung damage if swallowed.

Safety Phrase: S2 Keep out of the reach of children.  
S23 Do not breathe vapour – adequate explosion-proof ventilation to control airborne concentrations  
S24 Avoid contact with skin  
S43 In case of fire use foam or dry powder; never use water jets  
S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets

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**3. COMPOSITION/INFORMATION ON INGREDIENTS:**

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<u>Hazardous Components</u>	<u>CAS Number</u>	<u>Proportion % w/w</u>
Kerosene (petroleum), hydrodesulfurized	64742-81-0	50-95%
Amine/Amide Carboxylate		5-20%
Solvent Neutral Paraffinic Hydrocarbon	64742-56-9	5-20%
Linoleic Acid Dimer	6144-28-1	0.1-5%
2-Pentanol 4-Methyl	108-11-2	1-10%
Toluene	108-88-3	1-20%

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**4. FIRST AID MEASURES:**

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Swallowed: If swallowed **Do NOT** induce vomiting. Rinse mouth with water. Give water to drink. Seek prompt 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) occur, 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: Remove contaminated clothing and wash skin with plenty of water for at least 15 minutes. Contaminated clothing is to be laundered before re-use. Dispose of work boots that are contaminated internally.

Inhaled: Remove the source of contamination or move the victim to fresh air, avoid becoming a casualty. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing has stopped apply artificial respiration immediately. Seek medical advice.

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

Advice to Doctor: Treat symptomatically. Because of risk of aspiration, gastric lavage should only be undertaken after endotracheal intubation. Note the nature of this product.

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**5. FIRE FIGHTING MEASURES:**

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**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog. Foam is the preferred medium for large fires.  
Unsuitable extinguishing media – Do not use water in a jet.

**Unusual Fire & Explosion Hazards:** Light hydrocarbon vapours can build up in the headspace of tanks. These cause flammability/explosion hazards, even at temperatures below the normal flash point. Tank headspaces should always be regarded, as potentially flammable and care should be taken to avoid static electricity discharge and all ignition sources during filling, ullaging and sampling from storage tanks. Hoses should be electrically continuous. Ensure equipment used is properly earthed or bonded to the tank structure. Will present a flammability hazard if heated above the flash point but bulk liquids at normal storage temperatures present a low fire hazard. If fuel contacts hot surfaces, or leaks from high pressure fuel pipes, the vapour and/or mists generated will create a flammability or explosion hazard. Empty containers represent a fire hazard as they may contain remaining flammable residues and vapour. Do not weld, heat or drill the container. Do not introduce an ignition source. Heating may cause an explosion. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

**Fire Fighting Precautions:** If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

**Hazchem Code:** 3[Y]

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**6. ACCIDENTAL RELEASE MEASURES:**

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**Emergency Procedures:** In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including facemask, face shield, gauntlets and self-contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Avoid using sawdust or other combustible material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage.

**Methods and Materials for Containment and Clean Up:-** Small Spills/Major Spills - Absorb onto sand, vermiculite or other suitable absorbent material. Avoid using sawdust or other combustible material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage.

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## 7. HANDLING AND STORAGE:

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Precautions for Safe Handling: Keep out of reach of children. Do not breathe vapour. Avoid contact with skin. In case of fire use foam or dry powder; never use water jets. Avoid release to the environment.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing and re-using.

Conditions for Safe Storage:

This product is classed as UN1268, Dangerous Goods Class 3 Flammable Liquids.

Class 3 Flammable Liquids shall not be loaded in the same vehicle or packed in the same freight container with:-

- Class 1 Explosives
- Class 2.1 Flammable Gases where flammable liquids and flammable gases are both in bulk
- Class 2.3 Toxic Gases
- Class 4.2 Spontaneously Combustible Substances
- Class 5.1 Oxidising Agents
- Class 5.2 Organic Peroxides
- Class 6 Toxic Substances, except Flammable Liquid is nitromethane
- Class 7 Radioactive Substances

They may however be loaded in the same vehicle or packed in the same freight container with Class 2.1 (Flammable Gases except where the Flammable Liquids and Flammable Gases are in bulk). Class 2.2 (Non Flammable Non Toxic Gases) Class 4.3 (Dangerous When Wet Substances) Toxic 6 (Toxic Substances, except where Flammable Liquid is nitromethane) Class 8 (Corrosive Substances) Class 9 (Miscellaneous Dangerous Goods), Foodstuffs or foodstuff empties.

This product is a S5 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

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National Exposure Standards: Worksafe Australia has assigned the following standards for this product.

SUBSTANCE	Occupational Exposure Limits	TWA	
		ppm	mg/m <sup>3</sup>
Kerosene (petroleum) Hydrodesulfurized			10
Toluene		50	188

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:**

In industrial situation, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high; you are advised to modify the process or environment to reduce the problem.

**Personal Protective Equipment:** *Respiratory Protection:* It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred. For help in selecting suitable equipment, consult AS/NZS1715.

*Protective Gloves:* Impermeable protective gloves should be worn when you are using this product. Failure to do so will lead to irritation of the skin. For help in selecting suitable equipment, consult AS2161.

*Eye Protection:* Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Consult AS1336 and AS/NZS1337 for advice on Industrial Eye Protection.

*Clothing Protection:* Clean impermeable overalls or protective clothing should always be worn when handling this product, clothing should be destroyed. Consult AS2919 for advice on Industrial Clothing.

*Safety Boots :* Wearing safety boots in industrial situations is advisory. Consult AS/NZS for advice on Occupational Protective Footwear.

*Hygiene Recommendations:* Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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Appearance:	Red liquid, lighter than water
Odour:	Spirit odour
pH:	Not applicable
Vapour Pressure:	0.2 kPa @ 20°C
Vapour Density:	> 1 (Heavier than air)
Boiling Point:	150°C - 280°C @ 100kPa
Melting Point:	< -20°C
Solubility in Water:	Insoluble
Specific Gravity:	0.80 g/cm <sup>3</sup>
Flashpoint:	> 29°C (Closed Cup) Pensky - Martens
Flammability Limits:	LEL 0.7 % UEL 5.0 %
Auto Ignition Temperature:	> 200°C
Volatile Component:	Slowly volatile at 100%, but completely volatile at high temperatures
Evaporation Rate:	0.14 (n-butyl acetate = 1)

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## 10. STABILITY AND REACTIVITY:

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Chemical Stability:	This product is unlikely to spontaneously decompose.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials:	Strong oxidising agents.
Hazardous Decomposition Products:	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

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## 11. TOXICOLOGICAL INFORMATION:

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### HUMAN HEALTH HAZARDS - ACUTE

Swallowed:	Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death.
Eye:	May cause eye irritation but will not damage eye tissue.
Skin:	May cause skin irritation after prolonged or repeated contact, It is likely to cause discomfort and effects such as moderate to severe itchiness, blistering and skin reddening.
Inhaled:	High vapour concentrations may cause irritation to mucous membranes and the respiratory tract. Prolonged exposure to vapours can affect the central nervous system and result in headaches and dizziness or unconsciousness.

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**11. TOXICOLOGICAL INFORMATION: continued**

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Chronic: No specific data is available for this product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995), nor in NOHSC's "List of Designated Hazardous Substances" (April 1999).

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**12. ECOLOGICAL INFORMATION:**

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Environmental Hazards: No specific data available.

Ecotoxicity: No specific data available.

Persistence and Degradability: No specific data available.

Mobility: No specific data available.

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**13. DISPOSAL CONSIDERATIONS:**

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Disposal Methods and Containers: Absorb onto sand, vermiculite or other suitable absorbent material. Avoid using sawdust or other combustible material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Special Precautions for Landfill or Incineration: Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met. Empty containers may contain some residual product. Hazard warning labels are a guide to the safe handling of empty packages and should not be removed.

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**14. TRANSPORT INFORMATION:**

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UN Number: 1268  
UN Proper Shipping Name: Petroleum Products N.O.S  
Class and Subsidiary Risk: 3  
Packaging Group: III  
Special Precaution for User: None Allocated  
Hazchem Code: 3[Y]

Land Transport (ADG):  
UN Number: 1268  
UN Proper Shipping Name: Petroleum Products N.O.S  
Class and Subsidiary Risk: 3  
Packaging Group: III  
Special Precaution for User: None Allocated  
Hazchem Code: 3[Y]

Air Transport (ICAO/IATA):  
UN Number: 1268  
UN Proper Shipping Name: Petroleum Products N.O.S  
Class and Subsidiary Risk: 3  
Packaging Group: III  
Special Precaution for User: None Allocated  
Hazchem Code: 3[Y]

Marine Transport (IMDG/IMO):  
UN Number: 1268  
UN Proper Shipping Name: Petroleum Products N.O.S  
Class and Subsidiary Risk: 3  
Packaging Group: III  
Special Precaution for User: None Allocated  
Hazchem Code: 3[Y]

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**15. REGULATORY INFORMATION:**

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The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Poison Schedule: S5

EC Symbols:

EC Risk Phrase: R10 Flammable  
R38 Irritating to skin  
R65 Harmful: may cause lung damage if swallowed.

EC Safety Phrase: S2 Keep out of the reach of children.  
S23 Do not breathe vapour – adequate explosion-proof ventilation to control airborne concentrations  
S24 Avoid contact with skin  
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**16. OTHER INFORMATION:**

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**Please Note:**

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