

**SOUTHERN  
OIL REFINERIES**

PTY LIMITED

**MATERIAL SAFETY DATA SHEET**

**WFE BOTTOMS / RESIDUE**

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**COMPANY DETAILS**

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**Company Name** Southern Oil Refineries  
**Address** 42 Lewington St  
Bomen, NSW, Australia 2650  
**Emergency Tel.** (02) 69 319 022  
**Product and MSDS Info:** (02) 69 319 022

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**IDENTIFICATION**

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**Product Name** WFE Bottoms, Residue  
**Industrial Synonyms** Vacuum Tower Bottoms; Votator Bottoms; TFE Bottoms  
**Chemical Name** PETROLEUM HYDROCARBONS

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**Physical Data**

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**Appearance** Very viscous, semi solid  
**Colour** Black  
**Odour** Asphalt  
**Odour threshold-ppm** 0.1 ppm (based on hydrogen sulfide)  
**Specific Gravity** 0.97 (water = 1)  
**Boiling point** > 400°C  
**Melting point** NA  
**Flash point (PMCC)** > 250°C (ASTM D-93)  
**Flammability** NE  
**Auto Flammability** NE  
**Solubility in Water** Negligible

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**Other Properties**

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**pH** NA  
**Explosive Properties** NA  
**Oxidizing Properties** NA  
**Vapour Pressure** < 0.1 (mmHg @ 20°C)  
**Vapour Density** > 2.0  
**Evaporation Rate** NE  
**Relative Density** 0.97 @ 15°C  
**Partition Coefficient** NE  
**Viscosity** NE  
**Pour Point** < -6°C  
**Freezing Point** NE

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NA=NOT APPLICABLE NE=NOT ESTABLISHED

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## Ingredients

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Ingredients	Name	Proportion	CAS
	Residues from vacuum distilled Lubricating oils.	100 %	129893-17-0

### Information on Composition

Chemical Family: Petroleum Hydrocarbon

### Ingredients Considered Hazardous to Health

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. The concentration hydrogen sulfide dissolved in this product is less than 0.1% (weight), but may give rise to vapour concentrations in the vapour portions of the storage tanks which may exceed the OSHA PEL or ACGIH TLV limits.

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## HEALTH HAZARD INFORMATION

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### Health Effects

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#### Acute – Swallowed

May cause throat irritation, abdominal discomfort, nausea and diarrhea.

#### Acute – Eye

Not expected to cause eye irritation following short-term exposure.

#### Acute – Skin

Direct contact hot product may cause burns. Contact with hot vapours may cause irritation. A single, prolonged exposure is not likely to cause the product to be absorbed through the skin in harmful amounts.

#### Acute – Inhalation

Breathing in hot vapours may irritate the respiratory tract (nose, throat and lungs). Inhaling hydrogen sulfide released from the hot product in enclosed areas may cause unconsciousness, convulsions, suffocation, coma and death.

Breathing product into the lungs during ingestion or vomiting may cause lung injury.

#### Chronic

Prolonged or repeated eye exposure to hot vapours may cause inflammation of the membrane lining the eyelids and covering the eyeball. Prolonged or repeated skin contact with hot vapours may cause drying, cracking, redness, itching and/or swelling. Prolonged or repeated skin contact with hot vapours may also cause acne-like lesions, mild keratoses (horny growth), photosensitization (sensitive to light), or melanosis (patchy skin darkening).

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### First Aid

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#### Swallowed

Immediately get medical attention. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent breathing the product into the lungs. **Note:** No specific antidote available. Treat symptomatically and supportively.

#### Eye

For direct contact, immediately flush eyes with plenty of water, holding eyelids apart, for 15 minutes. Cover eyes with sterile bandages.

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<b>Skin</b>	If irritation or redness from exposure to vapour develops, move away from exposure, to fresh air. Seek medical attention if irritation or pain persists. For burns from contact with hot material, immediately cool affected area by drenching or immersing in water until material solidifies. Do NOT remove solidified material as this might cause skin tearing. Cover area with sterile, dry dressing. Get medical attention.
<b>Inhaled</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Someone should stay with victim. Seek medical attention if breathing difficulty persists.
<b>Advice to Doctor</b>	Call medical emergency telephone number for additional information. See page 1.

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### PRECAUTIONS FOR USE

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<b>Exposure Limits</b>	This product does not contain any components which have recognized exposure limits. However, an exposure limit of 5.00 mg/m <sup>3</sup> is suggested for oil mist.
<b>Eng. Controls</b>	Use in well ventilated area sufficient to maintain concentration of vapour below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.
<b>Personal Protection</b>	
<b>Eye Protection</b>	Safety glasses or full-face shield, if eye contact with hot product is likely.
<b>Clothing</b>	Overalls, safety shoes and gloves. Where contact with hot product is possible, combination temperature and chemical resistant apron and gloves must be worn.
<b>Work/Hygienic Practices</b>	Avoid skin and eye contact and inhalation of vapours. Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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### Flammability

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<b>Fire Hazards</b>	See Safe Handling Information.
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### SAFE HANDLING INFORMATION

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#### Storage and Transport

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<b>Transport</b>	Not classified as dangerous by the criteria of the Australian Dangerous Goods Code (ADG) for transport by road or rail when transported at temperatures less than 100°C. Otherwise UN Number: 3257 Dangerous Good Class: 9 Proper Shipping Name: Elevated Temperature Material, liquid, NOS (Flux).; PGIII.
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**Storage Regulations** Hazchem Code (Aus/NZ): N/A  
Ensure receiving vessel is dry to avoid violent eruptions or spattering of hot material. Do not pressurize, cut, weld, drill or grind vessel whilst full or partially full. Do not expose vessel to flames, sparks or sources of ignition.

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### Spills and Disposal

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**Spills & Disposal** Wear protective equipment to prevent skin and eye exposure and inhalation of vapours/mists. Work upwind or increase ventilation. Contain any spillage using absorbent soil, sand or any other inert material and prevent runoff to drains and waterways. Collect, seal and label drums for disposal. Wash down with detergent and excess water.

**Disposal** Refer to State Land Waste Management Authority. Normally suitable for incineration by approved agent.

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### Fire/Explosion Hazard

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**Fire/Explosion Hazard** Combustible liquid. May form flammable vapour mixes with air. Electrical requirements for work areas should be assessed according to AS 3000. On burning, will emit toxic fumes, including carbon monoxide (CO). Firefighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Extinguishing Media** Foam, dry agent (CO<sub>2</sub> or dry chemical powder).

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### OTHER INFORMATION

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**Toxicology** This product contains petroleum base oils which has been refined by processes including severe solvent extraction. These oils have not been listed in the U.S. National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans.

Oral LD50 (Rat) >2000 mg kg<sup>-1</sup>  
Dermal LD50 (Rabbit) >2000 mg kg<sup>-1</sup>

**Environmental Protection** Avoid contaminating waterways.  
Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

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### CONTACT POINT

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**Contact** Southern Oil Refineries  
42 Lewington St  
Bomen NSW 2650  
Telephone: (02) 69 319 022  
Fax: (02) 69 319 005

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This form has been prepared in accordance with WORKSAFE AUSTRALIA NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS [NOHSC:2011 (1994)] issued by the NATIONAL OCCUPATION HEALTH AND SAFETY COMMISSION MARCH 1994.

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