



# Shell Canada Limited

## Material Safety Data Sheet

Effective Date: 2003-03-24  
Supersedes: 2001-01-08

THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: **TELLUS\* 32**  
SYNONYMS: HYDRAULIC OIL  
PRODUCT USE: Hydraulic Fluid  
MSDS Number: 407-162

#### MANUFACTURER

**Shell Canada Limited**  
P.O. Box 100, Station M  
400-4th Ave. S.W.  
Calgary, AB Canada  
T2P 2H5

#### TELEPHONE NUMBERS

**Shell Emergency Number** 1-800-661-7378  
**CANUTEC 24 HOUR EMERGENCY NUMBER** 613-996-6666  
For general information: 1-800-661-1600  
For MSDS information: 403-691-3982  
(From 7:30 to 4:30 Mountain Time) 403-691-2220

This MSDS was prepared by the Toxicology and Product Stewardship Section of Shell Canada Limited.

\*An asterisk in the product name designates a trade-mark(s) of Shell Canada Limited, used under license by Shell Canada Products.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS Number	% Range	WHMIS Controlled
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THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.  
See Section 8 for Occupational Exposure Guidelines.

### 3. HAZARDS IDENTIFICATION

**Physical Description:** Liquid Lightly Coloured Hydrocarbon Odour

**Routes of Exposure:** Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.

**Hazards:**

May be slightly irritating to the eyes.  
Product may be slightly irritating to skin.  
Inhalation of oil mist or vapours from hot oil may cause irritation of the upper respiratory tract.

For further information on health effects, see Section 11.

#### 4. FIRST AID

- Eyes:** Flush eyes with water for at least 15 minutes while holding eyelids open. Obtain medical attention.
- Skin:** Wipe excess from skin. Wash contaminated skin with mild soap and water for 15 minutes.
- Ingestion:** Do not induce vomiting. Obtain medical attention immediately.
- Inhalation:** Remove victim from further exposure. Additional first aid treatment is not ordinarily required.
- Notes to Physician:** In general, lubricating oils have low oral toxicity. High pressure injection under the skin may have serious consequences and may require urgent treatment.

#### 5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Dry Chemical  
Carbon Dioxide  
Foam  
Water Fog
- Firefighting Instructions:** Material will not burn unless preheated. Caution, spilled material is slippery. Do not use a direct stream of water as it may spread fire. Water or foam may cause frothing. Use water to cool fire exposed containers. Do not enter confined fire space without adequate protective clothing and an approved positive pressure self-contained breathing apparatus.
- Hazardous Combustion Products:** Carbon monoxide, carbon dioxide and dense smoke are produced on combustion.

#### 6. ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Isolate hazard area and restrict access. Wear appropriate breathing apparatus (if applicable) and protective clothing. Dike and contain land spills; contain water spills by booming. For large spills remove by mechanical means and place in containers. Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. Flush area with water to remove trace residue. Dispose of recovered material as noted under Disposal Considerations. Notify appropriate environmental agency(ies).

#### 7. HANDLING AND STORAGE

- Handling:** Avoid excessive heat, formation of oil mist, breathing of vapours and mist of hot oil and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated. Use good personal hygiene.
- Storage:** Store in a cool, dry, well ventilated area, away from heat and ignition sources.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**THE FOLLOWING INFORMATION, WHILE APPROPRIATE FOR THIS PRODUCT, IS GENERAL IN NATURE. THE SELECTION OF PERSONAL PROTECTIVE EQUIPMENT WILL VARY DEPENDING ON THE CONDITIONS OF USE.**

**OCCUPATIONAL EXPOSURE LIMITS (Current ACGIH TLV/TWA unless otherwise noted):**Oil mist (mineral): 5 mg/m<sup>3</sup> (STEL: 10 mg/m<sup>3</sup>)

**Mechanical Ventilation:** To maintain levels below workplace exposure limits mechanical ventilation recommended. Local ventilation is recommended if oil mist is present or if exposure limit is exceeded. Make up air should always be supplied to balance air exhausted (either generally or locally).

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

**Skin Protection:** Oil impervious gloves (nitrile, neoprene or PVC) should be worn at all times when handling this product. Impervious clothing (apron, coveralls) should also be worn in confined workspaces or where the risk of skin exposure is much higher.

**Respiratory Protection:** If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. If airborne concentration is high (e.g. when product is heated), use a NIOSH-approved chemical cartridge respirator with organic vapour cartridges in combination with a P95 particulate filter.

**9. PHYSICAL DATA**

**Physical State:** Liquid

**Appearance:** Lightly Coloured

**Odour:** Hydrocarbon Odour

**Odour Threshold:** Not available

**Freezing/Pour Point:** Pour Point <-27 degrees C

**Boiling Point:** >316 degrees C

**Density:** 868 kg/m<sup>3</sup> @ 15 degrees C

**Vapour Density (Air = 1):** Not available

**Vapour Pressure (absolute):** <0.1 mm Hg @ 20 degrees C

**pH:** Not applicable

**Flash Point:** Method Cleveland Open Cup >200 degrees C

**Lower Explosion Limit:** Not available

**Upper Explosion Limit:** Not available

**Autoignition Temperature:** Not available

**Viscosity:** 28.8 - 35.2 cSt @ 40 degrees C

**Evaporation Rate (n-BuAc = 1):** Not available

**Partition Coefficient (K<sub>ow</sub>):** Not available

**Water Solubility:** Insoluble

**Other Solvents:** Hydrocarbon Solvents

**10. STABILITY AND REACTIVITY**

**Chemically Stable:** Yes

**Hazardous Polymerization:** No

**Sensitive to Mechanical Impact:** No

**Sensitive to Static Discharge:** No

**Incompatible Materials:** Avoid strong oxidizing agents.

**Conditions of Reactivity:** Avoid excessive heat, formation of vapours or mists.

## 11. TOXICOLOGICAL INFORMATION

### Ingredient (or Product if not specified) Toxicological Data

<b>Routes of Exposure:</b>	Exposure will most likely occur through skin contact or from inhalation of mechanically or thermally generated oil mists.
<b>Formulation:</b>	No data is specifically available for this product and therefore this toxicological information is based on data available for the ingredients.
<b>Irritancy:</b>	This product is not a primary skin irritant after exposure of short duration, is not a skin sensitizer and is not irritating to the eyes.
<b>Chronic Effects:</b>	Prolonged or repeated contact may cause various forms of dermatitis including folliculitis and oil acne. Long term intensive exposure to oil mist may cause benign lung fibrosis.

## 12. ECOLOGICAL INFORMATION

<b>Environmental Effects:</b>	Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams, or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.
<b>Biodegradability:</b>	Not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Waste management priorities (depending on volumes and concentration of waste) are: 1. recycle (reprocess), 2. energy recovery (cement kilns, thermal power generation), 3. incineration, 4. disposal at a licenced waste disposal facility. Do not attempt to combust waste on-site. Incinerate at a licenced waste disposal site with approval of environmental authority. Landfill absorbed material in a government approved site.

## 14. TRANSPORTATION INFORMATION

### Canadian Road and Rail Shipping Classification:

This product is not regulated under the Canadian Transportation of Dangerous Goods Regulations for transport by road and rail.

## 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all the information required by the CPR.

**DSL/NDSL Status:** THIS PRODUCT IS NOT A WHMIS CONTROLLED SUBSTANCE.  
This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act. This product and/or all components are listed on the U.S. EPA TSCA Inventory.

**Other Regulatory Status:** No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

## 16. ADDITIONAL INFORMATION

**Revisions:** This MSDS has been reviewed and updated.  
Changes have been made to:  
Section 3  
Section 5  
Section 8