

**IMPERIAL OIL  
MATERIAL SAFETY DATA SHEET**

**PG 58-28 PERFORMANCE ASPHALT**

Date Prepared: May 24, 2000

Supersedes: June 03, 1998

MSDS Number: 16042

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**1. PRODUCT INFORMATION**

Product Identifier: PG 58-28 PERFORMANCE ASPHALT

Application and Use:

Asphalt

Product Description:

A viscous material, a complex mixture of aliphatic and aromatic hydrocarbons.

CAS Number: 8052-42-4

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REGULATORY CLASSIFICATION

WHMIS:

Not a controlled product

CEPA: CANADIAN ENVIRONMENTAL PROTECTION ACT

All components of this product are either on the Domestic Substances List (DSL) or are exempt.

TDG INFORMATION (RAIL/ROAD):

Not Regulated in Canada.

Please be aware that other regulations may apply.

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TELEPHONE NUMBERS

MANUFACTURER/SUPPLIER:

Emergency 24 hr. (519) 339-2145

IMPERIAL OIL

Technical Info. (800) 268-3183

Products Division

111 St Clair Avenue West

Toronto, Ontario

M5W 1K3

(416) 968-4441

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## 2. REGULATED COMPONENTS

The following components are defined in accordance with sub-paragraph 13(a)

(i) to (iv) or paragraph 14(a) of the Hazardous Products Act:

NAME	%	CAS #
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Not applicable

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### 3. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Physical State: Liquid

Specific gravity: 1.032 at 15.0 deg C

Viscosity: 285.00 cSt at 135 deg C

Vapour Density: not available

Boiling Point: not available

Evaporation rate: <1 (1= n-butylacetate)

Solubility in water: negligible

Freezing/Pour Point: not available

Odour Threshold: not available

Vapour Pressure: <1 kPa at 38 deg C

Appearance/odour: Black viscous liquid, petroleum hydrocarbon odour.

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### 4. HEALTH HAZARD INFORMATION

NATURE OF HAZARD

INHALATION:

Negligible hazard at normal temperatures (up to 38 deg C).

Elevated temperatures or mechanical action may form vapours, mists or fumes which may be irritating to the eyes, nose, throat and lungs.

It is possible for the toxic gas hydrogen sulphide to build up in tanks or other confined spaces that contain this product. Although the gas smells like rotten eggs at low concentrations, it may cause irritation, respiratory collapse, coma and death without necessarily any warning odour being sensed.

Avoid breathing vapours or mists.

EYE CONTACT:

Asphalt fumes are moderately irritating to the eyes. Hot liquid asphalt will cause thermal burns on direct contact.

SKIN CONTACT:

Exposure to hot material may cause thermal burns.

INGESTION:

Low toxicity.

ACUTE TOXICITY DATA:

Based upon animal test data from similar materials and products,  
the acute toxicity of this product is expected to be:

Oral : LD50 > 5000 mg/kg (Rat)  
Dermal : LD50 > 2000 mg/kg (Rabbit)

OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends:

For Asphalt (petroleum) fumes, 0.5 mg/m<sup>3</sup> as benzene soluble aerosol.  
For Hydrogen Sulphide, 10 ppm (14 mg/m<sup>3</sup>).

Local regulated limits may vary.

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## 5. FIRST AID MEASURES

INHALATION:

In emergency situations use proper respiratory protection to immediately remove the affected victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Call for prompt medical attention.

EYE CONTACT:

Flush eyes with large amounts of water until irritation subsides. If irritation persists, get medical attention.

SKIN CONTACT:

First aid is normally not required.

For hot material, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

For hot material, no attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh may easily be torn. Transport individual to a medical facility for treatment.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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## 6. PREVENTIVE AND CORRECTIVE MEASURES

PERSONAL PROTECTION:

The selection of personal protective equipment varies, depending upon

conditions of use.

In open systems where contact is likely, wear safety goggles, face shield, chemical-resistant overalls, and appropriate thermal/chemical gloves.

Where only incidental contact is likely, wear safety goggles, face shield, chemical-resistant overalls, and chemically impervious gloves.

Where concentrations in air may exceed the occupational exposure limits given in Section 4 and where engineering, work practices or other means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation.

#### ENGINEERING CONTROLS:

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

#### HANDLING, STORAGE AND SHIPPING:

Keep containers closed. Handle and open containers with care.

Store in a cool, well ventilated place away from incompatible materials.

In keeping with good personal hygiene practices, wash hands thoroughly after handling the material.

Empty containers may contain product residue. Do not pressurize cut, heat, or weld empty containers. Do not reuse empty containers without commercial cleaning or reconditioning.

LAND SPILL:

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard.

Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth.

Recover by pumping or by using a suitable absorbant.

If liquid is too viscous for pumping, scrape up.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

WATER SPILL:

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

Consult an expert on disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

## 7. FIRE AND EXPLOSION HAZARD

Flashpoint and method: 230 deg C COC ASTM D92

Autoignition: NA Flammable Limits: LEL: NA UEL: NA

### GENERAL HAZARDS:

Low Hazard; liquids may burn upon heating to temperatures at or above the flash point.

Decomposes; flammable/toxic gases will form at elevated temperatures (thermal decomposition).

Toxic gases will form upon combustion.

### FIRE FIGHTING:

Use water spray to cool fire exposed surfaces and to protect personnel.

Shut off fuel to fire.

Use foam, dry chemical or water spray to extinguish fire.

Respiratory and eye protection required for fire fighting personnel.

A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA may not be required.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide, carbon dioxide and traces of oxides of sulphur

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**8. REACTIVITY DATA**

STABILITY:

This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents

HAZARDOUS DECOMPOSITION:

See: Hazardous Combustion Products

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**9. NOTES**

All components of this product are listed on the U.S. TSCA inventory.

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REVISION SUMMARY:

Since 3 June 1998, this MSDS has been revised in Section(s):

4, 6

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## 10. PREPARATION

Date Prepared: May 24, 2000

Prepared by: Lubricants & Specialties

IMPERIAL OIL

Products Division

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