

# SAFETY DATA SHEET

PURETOL™ 9D



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : PURETOL™ 9D**EC number** : 232-455-8**REACH Registration number**

Registration number	Legal entity
01-2119487078-27-0010	-

**CAS number** : 8042-47-5**Product code** : PTL9D, 440-665**Product description** : This material is a European Pharmacopoeia (EP) and German Pharmacopoeia (DAB 10) grade white mineral oil.**Other means of identification** : Not available.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Manufacture of substance - Industrial Use in Cleaning Agents - Consumer Metal working fluids/rolling oils - Industrial Metal working fluids/rolling oils - Professional Use as binders and release agents - Industrial Use as binders and release agents - Professional Use in Agrochemicals uses - Professional Use in Agrochemicals uses - Consumer Rubber production and processing - Industrial Polymer processing - Industrial Use as an intermediate - Industrial Lubricants - Industrial Lubricants (Low release) - Professional Lubricants (high release) - Professional Lubricants (Low release) - Consumer Lubricants (high release) - Consumer Use in laboratories - Industrial Use in laboratories - Professional Water treatment chemicals - Industrial Water treatment chemicals - Professional Explosives manufacture and use - Professional Distribution of substance - Industrial Functional Fluids - Industrial Functional Fluids - Professional Other Consumer Uses - Consumer Formulation and (re)packing of substances and mixtures - Industrial Uses in Coatings - Industrial Uses in Coatings - Professional Uses in Coatings - Consumer Use in Cleaning Agents - Industrial Use in Cleaning Agents - Professional

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer** : Petro-Canada Lubricants Inc.  
 2310 Lakeshore Road West  
 Mississauga, Ontario  
 Canada L5J 1K2

PURETOL™ 9D

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Supplier** : Petro-Canada Europe Lubricants Limited  
Wellington House, Starley Way  
Birmingham International Park  
Solihull  
B37 7HB, United Kingdom  
Tel: +44 (0) 121 781 7264  
Fax: +44 (0) 121 781 7401

**e-mail address of person responsible for this SDS** : EUSDS@suncor.com

### National contact

Not applicable.

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : Not applicable.

#### Supplier

**Telephone number** : Suncor Energy: (001) 403-296-3000  
Canutec Transportation: (001) 613-996-6666  
Poison Control Centre: Consult local telephone directory for emergency number(s).

**Hours of operation** : 24-hours

**Information limitations** : Not applicable.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mono-constituent substance

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Asp. Tox. 1, H304

#### Classification according to Directive 67/548/EEC [DSD]

Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : May be fatal if swallowed and enters airways.

#### Precautionary statements

**Prevention** : Not applicable.

**Response** : IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

**SECTION 2: Hazards identification**

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : No.  
P: Not available. B: Not available. T: No.

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : Not available.

**Other hazards which do not result in classification** : Not available.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : Mono-constituent substance

Product/ingredient name	Identifiers	%	<u>Classification</u>		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
White mineral oil	REACH #: 01-2119487078-27-0010 EC: 232-455-8 CAS: 8042-47-5	100	Not classified.	Asp. Tox. 1, H304  <b>See Section 16 for the full text of the H statements declared above.</b>	[A]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent

[B] Impurity

[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## SECTION 4: First aid measures

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : Repeated skin exposure can produce local skin destruction or dermatitis.  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting

### 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
 Foam (Specifically trained personnel only)  
 Water fog (Specifically trained personnel only)  
 Dry chemical powder  
 Carbon dioxide.  
 Other inert gases (subject to regulations)  
 Sand or earth

**Unsuitable extinguishing media** : Do not use direct water jets on the burning product; they could cause splattering and spread the fire.  
 Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** : Carbon oxides (CO, CO<sub>2</sub>), smoke and irritating vapours as products of incomplete combustion.

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

**Additional information** : Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### 6.4 Reference to other sections

- : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

- Recommendations** : Not applicable

**SECTION 7: Handling and storage**

**Industrial sector specific solutions** : Not available.

**SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**8.1 Control parameters**Occupational exposure limits

Product/ingredient name	Exposure limit values
White mineral oil	<b>ACGIH TLV (United States). Notes: (Mineral oil)</b> TWA: 5 mg/m <sup>3</sup> , (Inhalable fraction) 8 hour(s).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect levels

Product/ingredient name	Type	Exposure	Value	Population	Effects
Highly refined base oils	DNEL	Long term Dermal	220 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	160 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	92 mg/kg bw/day	Man via the environment	Systemic
	DNEL	Long term Inhalation	35 mg/m <sup>3</sup>	Man via the environment	Systemic
	DNEL	Long term Oral	40 mg/kg bw/day	Man via the environment	Systemic

**DNEL Summary** : Long-term systemic effects include non-reproductive effects and developmental / reproductive effects. Lowest DNEL is shown.

Predicted effect concentrations

No PECs available.

**8.2 Exposure controls**

**Appropriate engineering controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): neoprene, nitrile, Viton®.



## SECTION 8: Exposure controls/personal protection

- |  |  |
|--|--|
| <b>Body protection</b>                 | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Other skin protection</b>           | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  |
| <b>Respiratory protection</b>          | : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter |
| <b>Environmental exposure controls</b> | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.                               |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- |   |  |
|---|--|
| <b>Physical state</b>                               | : Liquid.  |
| <b>Colour</b>                                       | : Clear and bright   |
| <b>Odour</b>  | : No odour or slight petroleum oil like.   |
| <b>Odour threshold</b>                              | : Not available.   |
| <b>pH</b>   | : Not available.   |
| <b>Melting point/freezing point</b>                 | : Not available.   |
| <b>Initial boiling point and boiling range</b>      | : Not available.   |
| <b>Flash point</b>                                  | : Open cup: >180°C [Cleveland.]  |
| <b>Evaporation rate</b>                             | : Not available.   |
| <b>Flammability (solid, gas)</b>                    | : Low fire hazard. This material must be heated before ignition will occur.                                      |
| <b>Burning time</b>                                 | : Not applicable.  |
| <b>Burning rate</b>                                 | : Not applicable.  |
| <b>Upper/lower flammability or explosive limits</b> | : Not available.   |
| <b>Vapour pressure</b>                              | : Not available.   |
| <b>Vapour density</b>                               | : Not available.   |
| <b>Relative density</b>                             | : 0.8581 kg/L @ 15°C (59°F)  |
| <b>Solubility(ies)</b>                              | : Insoluble in water.  |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.   |
| <b>Auto-ignition temperature</b>                    | : Not available.   |
| <b>Decomposition temperature</b>                    | : Not available.   |
| <b>Explosive properties</b>                         | : Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Oxidising properties</b>                         | : Not available.   |
| <b>Viscosity</b>                                    | : 15.5 cSt @ 40°C (104°F), 3.41 cSt @ 100°C (212°F)  |
| <b>Pour point</b>                                   | : -21°C (-6°F)   |

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : Reactive with oxidising agents.
- 10.6 Hazardous decomposition products** : May release COx, smoke and irritating vapours when heated to decomposition.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Highly refined base oils	LC50 Inhalation Dusts and mists	Rat	>5000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitisation

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : All components listed in Annex VI to which Note L applies, and contained in the product, have been shown to contain less than 3% DMSO extractables as measured by IP346.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Product/ingredient name	Result
White mineral oil	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.



PURETOL™ 9D

## SECTION 11: Toxicological information

**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : No specific data.  
**Ingestion** : Adverse symptoms may include the following:  
 nausea or vomiting  
**Skin contact** : Repeated skin exposure can produce local skin destruction or dermatitis.  
**Eye contact** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : Not listed as carcinogenic by OSHA, NTP or IARC.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
PURETOL™ 9D	EC50 >100 mg/l	Daphnia	48 hours
	LC50 >100 mg/l	Fish	96 hours
Highly refined base oils	NOEC ≥100 mg/l	Algae	72 hours
	NOEC ≥100 mg/l	Daphnia	48 hours
	NOEC ≥100 mg/l	Fish	96 hours

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
PURETOL™ 9D	OECD 301B	>60 % - Readily - 28 days	-	Activated sludge

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
PURETOL™ 9D	-	-	Readily

## SECTION 12: Ecological information

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

PBT : No.  
P: Not available. B: Not available. T: No.

vPvB : Not available.  
vP: Not available. vB: Not available.

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-

PURETOL™ 9D

## SECTION 14: Transport information

<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>14.6 Special precautions for user</b>	Not available.	Not available.	Not available.	Not available.
<b>Additional information</b>	-	-	-	-

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

Other EU regulations

**Canada inventory** : All components are listed or exempted.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

**Europe inventory** : All components are listed or exempted.

**International lists** : **Australia inventory (AICS)**: All components are listed or exempted.  
**China inventory (IECSC)**: All components are listed or exempted.  
**Japan inventory**: All components are listed or exempted.  
**Korea inventory**: All components are listed or exempted.  
**New Zealand Inventory of Chemicals (NZIoC)**: All components are listed or exempted.  
**Philippines inventory (PICCS)**: All components are listed or exempted.

**15.2 Chemical Safety Assessment** : Complete.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

**Key literature references and sources for data** : Available upon request.  
™ Trademark of Suncor Energy Inc. Used under licence.

**PURETOL™ 9D****SECTION 16: Other information****Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

<b>Classification</b>	<b>Justification</b>
Asp. Tox. 1, H304	On basis of test data

**Full text of abbreviated H statements** : H304 May be fatal if swallowed and enters airways.

**Full text of classifications [CLP/GHS]** : Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

**Full text of abbreviated R phrases** : Not applicable.

**Full text of classifications [DSD/DPD]** : Not applicable.

**Date of printing** : 1/13/2012.

**Date of issue/ Date of revision** : 1/13/2012.

**Date of previous issue** : 4/27/2011.

**Version** : 2.01

**Prepared by** : **Product Safety - DSR**

**For Copy of (M)SDS** : Internet: [lubricants.petro-canada.ca/msds](http://lubricants.petro-canada.ca/msds)

Lubricants:  
 Western Canada, telephone: (001) 800-661-1199; fax: (001) 800-378-4518  
 Ontario & Central Canada, telephone: (001) 800-268-5850; fax: (001) 800-201-6285  
 Quebec & Eastern Canada, telephone: (001) 800-576-1686; fax: (001) 800-201-6285

For Product Safety Information: (001) 905-804-4752

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.10.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use in Cleaning Agents - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC03, PC04, PC09a, PC24, PC35, PC38  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.16.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use in Agrochemicals uses - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC12, PC27, PC22 Lawn and Garden Preparations, including fertilizers  
**Article category related to subsequent service life:** Not applicable.



## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.23.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Lubricants (Low release) - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09a, ERC09b  
**Market sector by type of chemical product:** PC01, PC24, PC31, PC06 Automotive Care Products\*\*\*  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.24.4a - highly refined base oils

**List of use descriptors** : **Identified use name:** Lubricants (high release) - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC01, PC24, PC31, PC06 Automotive Care Products\*\*\*  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.32.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Other Consumer Uses - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC28, PC39  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Consumer

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.7.1a - Highly Refined Base Oils

**List of use descriptors** : **Identified use name:** Uses in Coatings - Consumer  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU21  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** PC01, PC02, PC04, PC09a, PC09b, PC09c, PC15, PC18, PC23, PC24, PC31, PC34, PC05 Artists Supply and Hobby preparations, PC10 Building and construction preparations not covered elsewhere

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.1.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Manufacture of substance - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03, SU08, SU09  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC01, ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.11.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Metal working fluids/rolling oils - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC17  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.



## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.12.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Metal working fluids/rolling oils - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC05, PROC08a, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC17  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.13.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use as binders and release agents - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC06, PROC07, PROC08b, PROC10, PROC13, PROC14  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.14.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use as binders and release agents - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC06, PROC08a, PROC08b, PROC10, PROC11, PROC14  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.15.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use in Agrochemicals uses - Professional  
**Process Category:** PROC01, PROC02, PROC04, PROC08a, PROC08b, PROC11, PROC13  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.17.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Rubber production and processing - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC13, PROC14, PROC15, PROC21  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03, SU10, SU11  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC01, ERC04, ERC06d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.18.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Polymer processing - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC08a, PROC08b, PROC09, PROC13, PROC14, PROC21  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.



## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.2.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use as an intermediate - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03, SU08, SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC06a  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.20.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Lubricants - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC17, PROC18  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04, ERC07  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.21.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Lubricants (Low release) - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09a, ERC09b  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.22.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Lubricants (high release) - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.25.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use in laboratories - Industrial  
**Process Category:** PROC10, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC02, ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.26.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Use in laboratories - Professional  
**Process Category:** PROC10, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.



## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.27.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Water treatment chemicals - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC13  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC03, ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.28.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Water treatment chemicals - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC13  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08f  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.29.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Explosives manufacture and use - Professional  
**Process Category:** PROC01, PROC03, PROC05, PROC08a, PROC08b  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08e  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.3.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Distribution of substance - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC09, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC01, ERC02, ERC03, ERC04, ERC05, ERC06a, ERC06b, ERC06c, ERC06d, ERC07  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.30.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Functional Fluids - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC08a, PROC08b, PROC09  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC07  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.31.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Functional Fluids - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC08a, PROC09, PROC20  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC09a, ERC09b  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.4.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Formulation and (re)packing of substances and mixtures - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03, SU10  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC02  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.5.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Uses in Coatings - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC10, PROC13, PROC15  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.



## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.6.1a - highly refined base oils

**List of use descriptors** : **Identified use name:** Uses in Coatings - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13, PROC15, PROC19  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.8.1a - Highly Refined Base Oils

**List of use descriptors** : **Identified use name:** Use in Cleaning Agents - Industrial  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC07, PROC08a, PROC08b, PROC10, PROC13  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU03  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC04  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.

## Annex to the extended Safety Data Sheet (eSDS)

Professional

### Identification of the substance or mixture

**Product definition** : Mono-constituent substance  
**Code** : PTL9D, 440-665  
**Product name** : PURETOL™ 9D

### Section 1 - Title

**Short title of the exposure scenario** : ES 9.9.1a - Highly Refined Base Oils

**List of use descriptors** : **Identified use name:** Use in Cleaning Agents - Professional  
**Process Category:** PROC01, PROC02, PROC03, PROC04, PROC08a, PROC08b, PROC10, PROC11, PROC13  
**Substance supplied to that use in form of:** As such  
**Sector of end use:** SU22  
**Subsequent service life relevant for that use:** No.  
**Environmental Release Category:** ERC08a, ERC08d  
**Market sector by type of chemical product:** Not applicable.  
**Article category related to subsequent service life:** Not applicable.