









<b>WHMIS (Pictograms)</b>	<b>WHMIS (Classification)</b>	<b>Protective Clothing</b>	<b>TDG (pictograms)</b>
 	<b>B-3, D-2B</b>	  	

<b>Section 1. Chemical Product and Company Identification</b>			
<b>Product Name</b>	<b>PETROSOL 3355</b>	<b>Code</b>	W215
<b>Synonym</b>	Not available.	<b>Validated on</b>	1/12/2007.
<b>Manufacturer</b>	PETRO-CANADA P.O. Box 2844 150 – 6th Avenue South-West Calgary, Alberta T2P 3E3	<b>In case of Emergency</b>	Petro-Canada: 403-296-3000 Canutec Transportation: 613-996-6666 Poison Control Centre: Consult local telephone directory for emergency number(s).
<b>Material Uses</b>	This product is an aliphatic solvent that can also be used as kerosene (fuel for non-vented space heaters and wick-fed illuminating lamps).		

<b>Section 2. Composition and Information on Ingredients</b>					
			<i>Exposure Limits (ACGIH)</i>		
<b>Name</b>	<b>CAS #</b>	<b>% (V/V)</b>	<b>TLV-TWA(8 h)</b>	<b>STEL</b>	<b>CEILING</b>
Complex mixture of petroleum hydrocarbons (C9-C16) ** Aromatic content is 10-25% typical (benzene: nil).	8008-20-6	>99.9	Not established	Not established	Not established
<b>Manufacturer Recommendation</b>	Not applicable				
<b>Other Exposure Limits</b>	Consult local, state, provincial or territory authorities for acceptable exposure limits.				

<b>Section 3. Hazards Identification.</b>	
<b>Potential Health Effects</b>	Combustible liquid. Exercise caution when handling this material. Contact with this product may cause skin irritation. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight eye irritation. Inhalation of this product may cause respiratory tract irritation and Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may cause gastro-intestinal irritation. Aspiration of this product may result in severe irritation or burns to the respiratory tract. For more information refer to Section 11 of this MSDS.

<b>Section 4. First Aid Measures</b>	
<b>Eye Contact</b>	Quickly and gently blot or brush chemical off the face. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. Obtain medical advice.
<b>Skin Contact</b>	As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts, etc.). Quickly and gently, blot or brush away excess chemical. Immediately wash with lukewarm, gently flowing water and non-abrasive soap for 15-20 minutes. Immediately obtain medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
<b>Inhalation</b>	If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Quickly transport victim to an emergency care facility.
<b>Ingestion</b>	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Quickly transport victim to an emergency care facility.
<b>Note to Physician</b>	Not available

**Section 5. Fire-fighting Measures**

<b>Flammability</b>	Class II - combustible liquid (NFPA).	<b>Flammable Limits</b>	Lower: 0.7% Upper: 5%
<b>Flash Points</b>	Closed cup: >43°C (>109.4°F) [Tag Closed Tester (ASTM D56).]	<b>Auto-Ignition Temperature</b>	210°C (410°F)
<b>Fire Hazards in Presence of Various Substances</b>	Flammable in presence of open flames, sparks, or heat. May accumulate in confined spaces. This product can accumulate static charge and ignite. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back.	<b>Explosion Hazards in Presence of Various Substances</b>	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.
<b>Products of Combustion</b>	Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sulphur oxides (SO <sub>x</sub> ), smoke and irritating vapours as products of incomplete combustion.		
<b>Fire Fighting Media and Instructions</b>	NAERG2004 GUIDE 128, Flammable liquids (Non-polar/Water-immiscible). CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. SMALL FIRES: Dry chemical, CO <sub>2</sub> , water spray or regular foam. LARGE FIRES: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting devices or any discolouration of tank. ALWAYS stay away from the ends of tanks. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.		

**Section 6. Accidental Release Measures**

<b>Material Release or Spill</b>	IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Evacuate non-essential personnel. Extinguish all ignition sources. Stop leak if safe to do so. Ventilate area. Ensure clean-up personnel wear appropriate personal protective equipment. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. If spilled in a confined space, ensure appropriate confined space entry protocols are followed. Avoid breathing vapours or mists of material. Avoid contact with spilled material. Do not allow spilled material to enter sewer systems as vapours may accumulate and may cause an explosion/fire hazard. Do not allow spilled materials to come into contact with incompatible materials (see Section 10). Ground and bond all equipment used to clean up the spilled material, as it may be a static accumulator. Notify appropriate authorities immediately.
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**Section 7. Handling and Storage**

<b>Handling</b>	COMBUSTIBLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Do not ingest this product. Avoid confined spaces and areas with poor ventilation. Avoid contact with any incompatible or reactive materials. Wear proper personal protective equipment (See Section 8). Ensure all equipment is grounded/bonded. Thoroughly wash all severely contaminated clothing before reuse. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product.
<b>Storage</b>	Store away from incompatible and reactive materials (See section 5 and 10). Store away from heat and sources of ignition. Avoid direct sunlight. Keep container tightly closed. Store in dry, cool, well-ventilated area. Ensure the storage containers are grounded/bonded.

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.
<b>Personal Protection</b>	<i>The selection of personal protective equipment varies, depending upon conditions of use.</i>
<b>Eyes</b>	As a minimum, safety glasses with side shields should be worn when handling this material.
<b>Body</b>	If this material may come in contact with the body during handling and use, we recommend wearing appropriate protective clothing to prevent contact with the skin. (Contact your PPE provider for more information.)
<b>Respiratory</b>	A NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hands** If this material may come in contact with the hands during handling and use, we recommend wearing gloves of the following material(s): polyvinyl alcohol (PVA), fluoro-elastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

**Feet** Wear appropriate footwear to prevent product from coming in contact with feet and skin.

**Section 9. Physical and Chemical Properties**

<b>Physical State and Appearance</b>	Clear liquid.	<b>Viscosity</b>	1.0 - 1.9 cSt @40°C (104°F)
<b>Colour</b>	Clear and bright.	<b>Pour Point</b>	<-51°C (<-60°F)
<b>Odour</b>	Hydrocarbon solvent.	<b>Softening Point</b>	Not available.
<b>Odour Threshold</b>	Not available.	<b>Dropping Point</b>	Not available.
<b>Boiling Point</b>	150 to 300°C (302 to 572°F)	<b>Penetration</b>	Not available.
<b>Density</b>	0.8 to 0.82 kg/L @ 15°C (59°F).	<b>Oil / Water Dist. Coefficient</b>	Not available.
<b>Vapour Density</b>	4.5 [Air = 1]	<b>Ionicity (in water)</b>	Not available
<b>Vapour Pressure</b>	1.4 kPa (10.5 mm Hg) @ 37.8°C (100°F)	<b>Dispersion Properties</b>	Not available.
<b>Volatility</b>	<1 (water = 1). Low volatility at ambient temperature and pressure, and much lower than gasoline.	<b>Solubility</b>	Insoluble in water. Partially miscible in some alcohols. Miscible with other petroleum solvents.

**Section 10. Stability and Reactivity**

<b>Corrosivity</b>	Not available.		
<b>Stability</b>	The product is stable under normal handling and storage conditions.	<b>Hazardous Polymerization</b>	Will not occur under normal working conditions.
<b>Incompatible Substances / Conditions to Avoid</b>	Reactive with oxidizing agents.	<b>Decomposition Products</b>	May release COx, NOx, SOx, smoke and irritating vapours when heated to decomposition.

**Section 11. Toxicological Information**

<b>Routes of Entry</b>	Skin contact, eye contact, inhalation, and ingestion.		
<b>Acute Lethality</b>	Acute toxicity information is not available for the product as a whole, therefore, data for some of the ingredients is provided below:  <u>Kerosene (8008-20-6):</u> Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LC50): >5000 mg/m <sup>3</sup> /4h (rat)		
<b>Chronic or Other Toxic Effects</b>	<p><b>Dermal Route:</b> This product contains a component (at &gt;= 1%) that can cause skin irritation. Therefore, this product is considered to be a skin irritant. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis.</p> <p><b>Inhalation Route:</b> Inhalation of this product may cause respiratory tract irritation. Inhalation of this product may cause Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death.</p> <p><b>Oral Route:</b> Ingestion of this product may cause gastro-intestinal irritation. Aspiration of this product may result in severe irritation or burns to the respiratory tract.</p> <p><b>Eye Irritation/Inflammation:</b> Short-term exposure is expected to cause only slight irritation, if any.</p> <p><b>Immunotoxicity:</b> Not available</p> <p><b>Skin Sensitization:</b> Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.</p> <p><b>Respiratory Tract Sensitization:</b> Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.</p> <p><b>Mutagenic:</b> This product is not known to contain any components at &gt;= 0.1% that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.</p>		

Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.
Carcinogenicity (ACGIH):	Considered to be A3 by the ACGIH. (Kerosene, 8008-20-6).
Carcinogenicity (IARC):	This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC.
Carcinogenicity (NTP):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.
Carcinogenicity (IRIS):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.
Carcinogenicity (OSHA):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
<b>Other Considerations</b>	Chronic exposure to some of the hazardous components of this product may result in damage to the following organs and/or systems: kidney.

<b>Section 12. Ecological Information</b>			
<b>Environmental Fate</b>	Not available	<b>Persistence/Bioaccumulation Potential</b>	Not available
<b>BOD5 and COD</b>	Not available.	<b>Products of Biodegradation</b>	Not available.
<b>Additional Remarks</b>	No additional remark.		

<b>Section 13. Disposal Considerations</b>	
<b>Waste Disposal</b>	Spent/ used/ waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities. Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

<b>Section 14. Transport Information</b>			
<b>TDG Classification</b>	KEROSENE, 3, UN1223, PGIII (CL-TDG)	<b>Special Provisions for Transport</b>	See Transportation of Dangerous Goods Regulations.

<b>Section 15. Regulatory Information</b>																			
<b>Other Regulations</b>	<p>This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are listed on the CEPA-DSL (Domestic Substances List).</p> <p>All components of this formulation are listed on the US EPA-TSCA Inventory.</p> <p>All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).</p> <p>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.</p> <p>Please contact Product Safety for more information.</p>																		
<b>DSD/DPD (Europe)</b>	Not evaluated.	<b>HCS (U.S.A.)</b>	CLASS: Irritating substance. CLASS: Target organ effects. CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).																
<b>ADR (Europe) (Pictograms)</b>	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN	<b>DOT (U.S.A) (Pictograms)</b>	Not evaluated for transport Non évalué pour le transport																
<b>HMIS (U.S.A.)</b>	<table border="1"> <tr> <td><b>Health Hazard</b></td> <td>2*</td> </tr> <tr> <td><b>Fire Hazard</b></td> <td>2</td> </tr> <tr> <td><b>Reactivity</b></td> <td>0</td> </tr> <tr> <td><b>Personal Protection</b></td> <td>H</td> </tr> </table>	<b>Health Hazard</b>	2*	<b>Fire Hazard</b>	2	<b>Reactivity</b>	0	<b>Personal Protection</b>	H	<b>NFPA (U.S.A.)</b>	<table border="1"> <tr> <td><b>Health</b></td> <td>2</td> <td><b>Fire Hazard</b></td> <td>2</td> <td><b>Reactivity</b></td> <td>0</td> <td><b>Specific hazard</b></td> <td></td> </tr> </table>	<b>Health</b>	2	<b>Fire Hazard</b>	2	<b>Reactivity</b>	0	<b>Specific hazard</b>	
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<b>Health</b>	2	<b>Fire Hazard</b>	2	<b>Reactivity</b>	0	<b>Specific hazard</b>													
		<b>Rating</b>	0 Insignificant 1 Slight 2 Moderate 3 High 4 Extreme																

**Section 16. Other Information**

**References** Available upon request.  
 \* Marque de commerce de Petro-Canada - Trademark

**Glossary**

ACGIH - American Conference of Governmental Industrial Hygienists	HCS - Hazardous Communication System
ADR - Agreement on Dangerous goods by Road (Europe)	HMIS - Hazardous Material Information System
ASTM - American Society for Testing and Materials	IARC - International Agency for Research on Cancer
BOD5 - Biological Oxygen Demand in 5 days	IRIS - Integrated Risk Information System
CAS - Chemical Abstract Services	LD50/LC50 - Lethal Dose/Concentration kill 50%
CEPA - Canadian Environmental Protection Act	LDLo/LCLo - Lowest Published Lethal Dose/Concentration
CERCLA - Comprehensive Environmental Response, Compensation and Liability Act	NFPA - National Fire Prevention Association
CFR - Code of Federal Regulations	NIOSH - National Institute for Occupational Safety & Health
CHIP - Chemical Hazard Information and Packaging Approved Supply List	NPRI - National Pollutant Release Inventory
	NSNR - New Substances Notification Regulations (Canada)
	NTP - National Toxicology Program
COD - Chemical Oxygen Demand	OSHA - Occupational Safety & Health Administration
CPR - Controlled Products Regulations	PEL - Permissible Exposure Limit
DOT - Department of Transportation (U.S.A.)	RCRA - Resource Conservation and Recovery Act
DSCL - Dangerous Substances Classification and Labeling (Europe)	SARA - Superfund Amendments and Reorganization Act
DSD/DPD - Dangerous Substance or Dangerous Preparations Directives (Europe)	STEL - Short Term Exposure Limit (15 minutes)
DSL - Domestic Substance List (Canada)	TDG - Transportation Dangerous Goods (Canada)
EEC/EU - European Economic Community/European Union	TDLo/TCLo - Lowest Published Toxic Dose/Concentration
EINECS - European Inventory of Existing Commercial Chemical Substances	TLV-TWA - Threshold Limit Value-Time Weighted Average
EPCRA - Emergency Planning And Community Right-To-Know Act	TLm - Median Tolerance Limit
FDA - Food and Drug Administration	TSCA - Toxic Substances Control Act
FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act	USEPA - United States Environmental Protection Agency
	USP - United States Pharmacopoeia
	WHMIS - Workplace Hazardous Material Information System

**For Copy of MSDS**

**Internet:** [www.petro-canada.ca/msds](http://www.petro-canada.ca/msds)

**Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228**

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

**Prepared by Product Safety - JDW on 1/12/2007.**

**Data entry by Product Safety - DSR.**

*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.*