



WHMIS (Pictograms)

B-2, D-2A, D-2B

TDG (pictograms)

TDG (pictograms)

Section 1. C	hemical Product and Company Identification		
Product Name	JET B AVIATION TURBINE FUEL	Code	W219 SAP: 150, 151, 152
Synonym	Jet B; Jet B DI; JP-4; Jet F-40; NATO F-40; Turbine Fuel, Aviation, Wide Cut Type (CAN/CGSB-3.22).	<u>Validated</u>	
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Emergenc	Petro-Canada:
Material Uses	Used as aviation turbine fuel. May contain a fuel system icing inhibitor.		Consult local telephone directory for emergency number(s).

	position and Information o			Ехро	sure Limits (ACGIH)	
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Complex mixture of p (C6-C14).	etroleum hydrocarbons	64741-41-9	>99	Not established	Not established	Not established
Benzene	ibitos (FOII) (if addad*).	71-43-2	<0.5	0.5 ppm	2.5 ppm	Not established
Fuel System Icing Inhibitor (FSII) (if added*): Diethylene Glycol Monomethyl Ether		111-77-3	<u><</u> 0.15	Not established	Not established	Not established
Anti-static, antioxidant, corrosion inhibitor and metal deactivator additives.		Not applicable	<0.1	Not applicable	Not applicable	Not applicable
	B DI, JP-4, Jet F-40 and n Fuel System Icing Inhibitor tor					
Manufacturer Recommendation	Not applicable		,	_		
Other Exposure Limits	Consult local, state, provincial	or territory au	thorities for a	acceptable exposure	limits.	-

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Section	n 7	Hazarde	Identification	

Potential Health Effects Flammable liquid. Exercise caution when handling this material. Skin and eye contact can cause irritation. Inhalation of vapours can cause irritation of the respiratory tract and CNS depression with symptoms of nausea, headaches, vomiting, dizziness, fatigue, light-headedness, reduced coordination, unconciousness and possibly death. Aspiration into the lungs may produce potentially fatal chemical pneumonitis (fluid in the lungs), severe lung damage, or respiratory failure. May cause cancer. May cause teratogenicity/embryotoxicity. For more information refer to Section 11 of this MSDS.

Eye Contact	Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately.
Skin Contact	Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 5 minutes or until chemical is removed.
Inhalation	Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Immediately transport victim to an emergency care facility.

JET B AVIATION TUR	BINE FUEL	Page Number: 2
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, of Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITIN mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs natureduce risk of aspiration. Repeat administration of water.	G. Have victim drink 240 to 300
`'ote to Physician	Not available	

Section 5. Fire	-fighting Measures			
Flammability	Flammable liquid (NFPA).	Flammable Limits	LOWER: 1.3% UPPER: 8% (NFPA)	
Flash Points	CLOSED CUP: -31°C (-24°F) (NFPA)	Auto-Ignition Temperature	240°C (464°F) (NFPA)	
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks, and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. This product can accumulate static charge and ignite. May accumulate in confined spaces.	Explosion Hazards in Presence of Various Substances	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.	
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), aldehydes, ketones, smoke and irritating vapours as products of incomplete combustion.			
Fire Fighting Media and Instructions	If tank, rail car or tank truck is involved in a consider initial evacuation for 800 meters (1/2 SMALL FIRES: Dry chemical, CO2, water spru LARGE FIRES: Water spray, fog or regular area if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fires Involving Tanks or	Irritating vapours as products of incomplete combustion. NAERG96, 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, CO2, 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'		

Section 6. Accidental Release Measures

Material Release or Spill

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. Ventilate area. Stop leak if safe to do so. 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. If spilled in a confined space, ensure appropriate confined space entry protocols are followed. Ensure clean-up personnel wear appropriate personal protective equipment. Use appropriate inert absorbent material to absorb spilled product. Do not use paper or other flammable materials to absorb product. Collect used absorbent for later disposal. Avoid breathing vapours or mists of material. Notify appropriate authorities immediately.

Section 7.	Handling and Storage
Handling	FLAMMABLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Wear proper personal protective equipment (See Section 8). Ensure all equipment is grounded/bonded. Avoid confined spaces and areas with poor ventilation. Avoid inhalation of product vapours or mists. 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.
Storage	Store away from heat and sources of ignition. Store away from incompatible and reactive materials (See section 5 and 10). Ensure the storage containers are grounded/bonded. Keep container tightly closed. Store in dry, cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

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.

Personal Protection - The selection of personal protective equipment varies, depending upon conditions of use.

Eyes As a minimum, safety glasses with side shields should be worn when handling this material.

Body If this material may come into 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).

Respiratory A NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister with a dust, fume of mist filter (R, or P series) 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): neoprene, polyvinyl alcohol (PVA), and fluoro-elastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns.

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

Section 9. Phy	sical and Chemical Properties		
Physical State and Appearance	Clear liquid.	Viscosity	Not available (similar to gasoline)
Colour	Clear and colourless.	Pour Point	Freezing Point: <-51°C (<-60°F) for Jet B/Jet B DI; <-58°C (<-72°F) for Jet Fuel F-40.
Odour	Gasoline like.	Softening Point	Not applicable.
Odour Threshold	Not available	Dropping Point	Not applicable.
Boiling Point	50 to 270°C (122 to 518°F)	Penetration	Not applicable.
Density	0.75 to 0.80 kg/L @ 15°C (59°F).	Oil / Water Dist. Coefficient	Not available
Vapour Density	3.5 (Air = 1)	Ionicity (in water)	Not available
Vapour Pressure	21 kPa (158 mmHg) @ 37.8°C (100°F).	Dispersion Properties	Not available
Volatility	Volatile.	Solubility	Insoluble in water. Partially miscible in some alcohols. Miscible in other petroleum solvents.

Section 10. S	Section 10. Stability and Reactivity				
Corrosivity	Not available				
Stability	The product is stable under normal handling and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions.		
Incompatible Substances / Conditions to Avoid	Can react with strong oxidizing agents, uranium hexafluoride, diborane. Incompatible with halogens and halogen compounds.	Decomposition Products	May release COx, NOx, SOx, aldehydes, ketones, smoke and irritating vapours when heated to decomposition.		

Section 11. Toxico	logical Information
Routes of Entry	Skin contact, eye contact, inhalation and ingestion.
Acute Lethality	Acute toxicity information is not available for the product as a whole, therefore, data for some of the ingredients is provided below:
	Based on toxicity of similar product. Acute oral toxicity (LD50): >5000 mg/kg (rat). Acute dermal toxicity (LD50): >5000 mg/kg (rabbit). Acute inhalation toxicity (LC50): >5000 mg/m³/4h (rat).

` JET B AVIATION TURBINE FUEL	Page Number: 4
	Benzene
	Acute oral toxicity (LD50): 930 mg/kg (rat).
	Acute dermal toxicity (LD50): >9400 mg/kg (rabbit).
	Acute inhalation toxicity (LC50): 13200 ppm/4h (rat).
•	Diethylene Glycol Monomethyl Ether
•	Acute oral toxicity (LD50): 4140-5180 mg/kg (rat).
	Acute dermal toxicity (LD50): >2000 mg/kg (rabbit).
	Acute inhalation toxicity (LC50): >50000 mg/m³/4h (rat).
Chronic or Other Toxic Effe	
Dermal Route:	Skin contact can cause irritation. Prolonged or repeated contact may defat and dry skin, and cause dermatitis.
Inhalation Route:	Ingestion 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.
Oral Route:	Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Eye Irritation/Inflammation:	Short-term exposure is expected to cause only slight irritation, if any.
Immunotoxicity:	Not available
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Mutagenic:	Benzene is tumorigenic by RTECS criteria.
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.
Teratogenicitý/Embryotoxicity:	This product contains a component(s) at >= 0.1% that has been shown to cause teratogenicity and/or embryotoxicity in laboratory tests. Therefore, this product is considered to be a teratogen/embryotoxin [Diethylene Glycol Monomethyl Ether].
Carcinogenicity (ACGIH):	ACGIH A1: confirmed human carcinogen. [Benzene]
Carcinogenicity (IARC):	IARC Group 1: carcinogenic to Humans. [Benzene]
Carcinogenicity (NTP):	NTP Group 1: known to be a carcinogen. [Benzene]
Carcinogenicity (IRIS):	EPA/IRIS Class A: human carcinogen.
Carcinogenicity (OSHA):	Benzene is an OSHA known carcinogen.
Other Considerations	No additional remark.

Environmental Fate	ological Information Not available	Persistance/ Bioaccumulation Potential	Not available	
BOD5 and COD	Not available	Products of Biodegradation	Not available	
Additional Remarks	No additional remark.			

Section 13. Dis	oosai Considerations
Waste Disposal	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.	·	
Section 14. Transport Information		
TDG Classification FUEL, AVIATION, TURBINE ENGINE, 3, UN1863, PGII (CL-TDG)	Special Provisions for Transport	See Transportation of Dangerous Goods Regulations.

Section 16. Other Information

References

Available upon request.

Personal Protection

Fire Hazard

Reactivity

* Marque de commerce de Petro-Canada - Trademark

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Glossary

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous goods by Road (Europe)

ASTM - American Society for Testing and Materials

BOD5 - Biological Oxygen Demand in 5 days

CAN/CGA B149.2 Propane Installation Code

CAS - Chemical Abstract Services

CEPA - Canadian Environmental Protection Act

CERCLA - Comprehensive Environmental Response, Compensation

and Liability Act

CFR - Code of Federal Regulations

CHIP - Chemicals Hazard Information and Packaging Approved Supply List

CNS - Central Nervous System

COD5 - Chemical Oxygen Demand in 5 days

CPR - Controlled Products Regulations

DOT - Department of Transport

DSCL - Dangerous Substances Classification and Labeling (Europe)

DSD/DPD - Dangerous Substances or Dangerous Preparations

Directives (Europe)

DSL - Domestic Substance List

EEC/EU - European Economic Community/European Union

EINECS - European Inventory of Existing Commercial Chemical

Substances

EPA - Environmental Protection Agency

EPCRA - Emergency Planning and Community Right to Know Act

FDA - Food and Drug Administration

FIFRA - Federal Insecticide, Fungicide and Rodenticide Act

HCS - Hazard Communication Standard

HMIS - Hazardous Material Information System

IARC - International Agency for Research on Cancer

IRIS - Integrated Risk Information System

LD50/LC50 - Lethal Dose/Concentration kill 50%

0 Reactivity

Specific hazard

LDLo/LCLo - Lowest Published Lethal Dose/Concentration

NAERG'96 - North American Emergency Response Guide Book (1996)

1 Slight

3 High

2 Moderate

4 Extreme

NFPA - National Fire Prevention Association

NIOSH - National Institute for Occupational Safety & Health

NPRI - National Pollutant Release Inventory

NSNR - New Substances Notification Regulations (Canada)

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTECS - Registry of Toxic Effects of Chemical Substances

SARA - Superfund Amendments and Reorganization Act

SD - Single Dose

STEL - Short Term Exposure Limit (15 minutes)

TDG - Transportation Dangerous Goods (Canada)

TDLo/TCLo - Lowest Published Toxic Dose/Concentration

TLm - Median Tolerance Limit

TLV-TWA - Threshold Limit Value-Time Weighted Average

TSCA - Toxic Substances Control Act

USEPA - United States Environmental Protection Agency

USP - United States Pharmacopoeia

WHMIS - Workplace Hazardous Material Information System

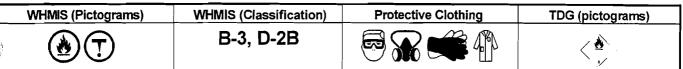
For Copy of MSDS

Prepared by Product Safety - JDW on 2/8/2005.

JET B AVIATION TURBINE FUEL	Page Number: 6
Internet: www.petro-canada.ca/msds	Data entry by Product Safety - JDW.
Fuels & Solvents:	
Western Canada, Ontario & Central Canada, telephone: 1-800-668-0220; fax: 900-837-1228	
ebec & Eastern Canada, telephone: 514-640-8308; fax: 514-640-8385	
For Product Safety Information: (905) 804-4752	

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.





Section 1. Cl	Section 1. Chemical Product and Company Identification				
Product Name	DIESEL FUEL	Code W104, W293 SAP: 120, 121, 122, 287			
Synonym	Diesel 50, Diesel 50 LS, #1 Diesel , #1 Diesel LS, Diesel LC, Seasonal Diesel, Seasonal Diesel LS, Diesel AA, Domestic Marine Diesel, International marine Diesel, Seasonal Diesel Locomotive, Domestic Marine diesel LS, diesel -20°C (LS), LSD, Low Sulphur Diesel, dyed diesel, marked diesel, coloured diesel, Naval Distillate, Ultra Low Sulphur Diesel, ULS Diesel, Mining Diesel, Mining Diesel Special, Mining Diesel Special LS, High Flash Mining Diesel, Furnace Oil, Stove Oil.				
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Petro-Canada: Emergency 403-296-3000 Canutec Transportation: 613-996-6666			
Material Uses	Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression ignition type. Mining Diesel has a higher flash point requirement, for safe use in underground mines.	Poison Control Centi Consult local telepho directory for emerger number(s).			

ı				_	Ехро	sure Limits (ACGIH)	
		Name	CAS#	% (V/V)	TLV-TWA(8 h)	STEL	CEILING
	Diesel oil.		68334-30-5	>99.9	100 mg/m³ (as total hydrocarbons) *	Not established	Not established
	Proprietary additives.		Not available	<0.1	Not established	Not established	Not established
	Aromatic content is 5 Sulphur content is 0-0	0% maximum (benzene: nil). 0.50%.					
	Manufacturer Recommendation	* Avoid prolonged or repeat associated with an increased			uels which can lead	to dermal irritation	on and may be
	Other Exposure	Consult local, state, provincial	or territory auth	orities for a	cceptable exposure lin	nits.	

Section 3. Hazards Identification.

Potential Health Effects

Combustible liquid. Exercise caution when handling this material. Contact with this product may cause skin and eye irritation. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. 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.

Section 4. Fir	rst Aid Measures
Eye Contact	Avoid direct contact. Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately.
Skin Contact	Avoid direct contact. Wear chemical resistant protective clothing if necessary. Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 15 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g., watch bands, belts, etc.). Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Inhalation	Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately transport victim to an emergency care facility.

DIESEL FUEL	Page Number: 2
Ingestion	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 240 to 300 mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Repeat administration of water. If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Quickly transport victim to an emergency care facility.
Note to Physician	Not available

Section 5. Fire-	fighting Measures		
Flammability	Class II - combustible liquid (NFPA).	Flammable Limits	LOWER: 0.7%, UPPER: 6% (NFPA)
Flash Points	Diesel Fuel: Closed Cup: >40°C (>104°F) Marine Diesel Fuel: Closed Cup: >60°C (>140°F) Mining Diesel: Closed Cup: 52°C (126°F)	Auto-Ignition Temperature	225°C (437°F)
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks, or heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. This product can accumulate static charge and ignite. May accumulate in confined spaces.	Explosion Hazards in Presence of Various Substances	Containers may explode in heat of fire. Do not cut, weld, heat, drill or pressurize empty container. Vapour explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), sulphur compounds (H2S), water vapour (H2O), smoke and irritating vapours as products of incomplete combustion. See Section 11 (Other Considerations) for information regarding the toxicity of the combustion products.		
Fire Fighting Media and Instructions	NAERG96, GUIDE 128, Flammable liquids (No CAUTION: This product has a moderate flash inefficient.		
	If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; als consider initial evacuation for 800 meters (1/2 mile) in all directions.		
	SMALL FIRES: Dry chemical, CO2, water spra LARGE FIRES: Water spray, fog or regular starea if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fig monitor nozzles.	foam. Do not use s	_
	Cool containers with flooding quantities of warising sound from venting devices or any discrete massive fire, use unmanned hose holders let fire burn. Wear positive pressure self-contective clothing will only provide limited protective.	olouration of tank. A or monitor nozzles; ontained breathing	ALWAYS stay away from the ends of tanks. if this is impossible withdraw from area and

Section 6. Accidental Release Measures

Material Release or Spill

Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: Extinguish all ignition sources. Stop leak if safe to do so. Ventilate area. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid breathing vapours or mists of material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Evacuate non-essential personnel. Ensure clean-up personnel wear appropriate personal protective equipment. Ground and bond all equipment used to clean up the spilled material, as it may be a static accumulator. Notify appropriate authorities immediately.

Section 7.	Handling and Storage
Handling	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. 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. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated. Avoid confined spaces and areas with poor ventilation. Ensure all equipment is grounded/bonded. Wear proper personal protective equipment (See Section 8).
:orage	Store away from heat and sources of ignition. Store in dry, cool, well-ventilated area. Store away from incompatible and reactive materials (See section 5 and 10). Ensure the storage containers are grounded/bonded.

Section 8. Exposure Controls/Personal Protection

Engineerina Controls

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.

Personal Protection - The selection of personal protective equipment varies, depending upon conditions of use.

Eyes As a minimum, safety glasses with side shields should be worn when handling this material. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.

Body 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.)

Respiratory 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): nitrile, neoprene, 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. Phys	sical and Chemical Properties		
Physical State and Appearance	Bright oily liquid.	Viscosity	1.3 - 4.1 cSt @ 40°C (104°F)
Colour	Clear to yellow / brown (may be dyed for taxation purposes).	Pour Point	Variable, -50°C to 0°C (-58°F to -32°F)
Odour	Petroleum oil like.	Softening Point	Not applicable.
Odour Threshold	Not available	Dropping Point	Not applicable.
Boiling Point	150 - 371°C (302-700°F)	Penetration	Not applicable.
Density	0.80 - 0.85 kg/L @ 15°C (59°F)	Oil / Water Dist. Coefficient	Not available
Vapour Density	4.5 (Air = 1)	Ionicity (in water)	Not applicable.
Vapour Pressure	Not available	Dispersion Properties	Not available
Volatility	Semivolatile to volatile.	Solubility	Insoluble in cold water, soluble in non-polar hydrocarbon solvents.

Section 10. Stability and Reactivity			
Corrosivity	Not available		
Stability	The product is stable under normal handling and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions.
Incompatible Substances / Conditions to Avoid	Reactive with oxidizing agents and acids.	Decomposition Products	May release COx, NOx, SOx, H2S, H2O, smoke and irritating vapours when heated to decomposition.

Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.
Acute Lethality	Acute oral toxicity (LD50): 7500 mg/kg (rat).
Chronic or Other Toxio Dermal Route:	This product contains a component (at >= 1%) that can cause skin irritation. Therefore, this product is considered to be a skin irritant. Prolonged or repeated contact may defat and dry skin, and cause dermatitis. (See Other Considerations)
Inhalation Route:	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.

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Oral Route:	Ingestion of this product may cause gastro-intestinal irritation. Aspiration of this product may result in severe irritation or burns to the respiratory tract. Ingestion 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.
Eye Irritation/Inflammation:	This product contains a component (at >= 1%) that can cause eye irritation. Therefore, this product is considered to be an eye irritant.
Immunotoxicity:	Not available
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization	: Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Mutagenic:	This product is not known to contain any components at >= 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.
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):	ACGIH A3: animal carcinogen. [Diesel oil] (See Other Considerations)
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.
Other Considerations	Avoid prolonged or repeated skin contact to diesel fuels which can lead to dermal irritation and may be associated with an increased risk of skin cancer.
	Diesel engine exhaust particulate is probably carcinogenic to humans (IARC Group 2A).

Environmental Not available Fate	Persistance/ Not available Bioaccumulation Potential
BOD5 and COD Not available	Products of Not available Biodegradation

Section 13. Disposal Considerations Waste Disposal 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.

Section 14. Tran	sport Info	rmation	•			
TDG Classification	DIESEL (CL-TDG)	FUEL,	3, UN1	202,	_ • .	See Transportation of Dangerous Goods
	(CL-TDG)				for Transport	Regulations.

Section 15. Regulatory Information

Other Regulations

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).

All components of this formulation are listed on the US EPA-TSCA Inventory.

All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).

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.

DIESEL FUEL					Pag	ge Number: 5
	Please contact Product Safe	ety for more inf	ormation			
DSD/DPD (Europe)	Not evaluated.		HCS (U.S.A.)		et organ (bustible li	
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.		DOT (U.S.A) (Pictograms)	Not evaluated	-	,
HMIS (U.S.A.)	Health Hazard 2* Fire Hazard 2 Reactivity 0 Personal Protection H	NFPA (U	Health 2 0	ire Hazard Reactivity Specific hazard	Rating	0 Insignificant 1 Slight 2 Moderate 3 High 4 Extreme

Section 16. Other Information	
References Available upon request. * Marque de commerce de Petro-Canada - Ti	rademark
Glossary ACGIH - American Conference of Governmental Industrial Hygienists ADR - Agreement on Dangerous goods by Road (Europe) ASTM - American Society for Testing and Materials BOD5 - Biological Oxygen Demand in 5 days CAN/CGA B149.2 Propane Installation Code CAS - Chemical Abstract Services CEPA - Canadian Environmental Protection Act CERCLA - Comprehensive Environmental Response, Compensation and Liability Act CFR - Code of Federal Regulations CHIP - Chemicals Hazard Information and Packaging Approved Supply List CNS - Central Nervous System COD5 - Chemical Oxygen Demand in 5 days CPR - Controlled Products Regulations DOT - Department of Transport DSCL - Dangerous Substances Classification and Labeling (Europe) DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe) DSL - Dornestic Substance List EEC/EU - European Economic Community/European Union EINECS - European Inventory of Existing Commercial Chemical Substances EPA - Environmental Protection Agency EPCRA - Emergency Planning and Community Right to Know Act FDA - Food and Drug Administration FIFRA - Federal Insecticide, Fungicide and Rodenticide Act HMIS - Hazardous Material Information System IARC - International Agency for Research on Cancer	IRIS - Integrated Risk Information System LD50/LC50 - Lethal Dose/Concentration kill 50% LDLo/LCLo - Lowest Published Lethal Dose/Concentration NAERG'96 - North American Emergency Response Guide Book (1996) NFPA - National Fire Prevention Association NIOSH - National Institute for Occupational Safety & Health NPRI - National Pollutant Release Inventory NSNR - New Substances Notification Regulations (Canada) NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration PEL - Permissible Exposure Limit RCRA - Resource Conservation and Recovery Act RTECS - Registry of Toxic Effects of Chemical Substances SARA - Superfund Amendments and Reorganization Act SD - Single Dose STEL - Short Term Exposure Limit (15 minutes) TDG - Transportation Dangerous Goods (Canada) TDLo/TCLo - Lowest Published Toxic Dose/Concentration TLm - Median Tolerance Limit TLV-TVA - Threshold Limit Value-Time Weighted Average TSCA - Toxic Substances Control Act USEPA - United States Environmental Protection Agency USP - United States Pharmacopoeia WHMIS - Workplace Hazardous Material Information System
For Copy of MSDS	Prepared by Product Safety - JDW on 8/17/2005.
Internet: www.petro-canada.ca/msds	Data entry by Product Safety - JDW.

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.

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

For Product Safety Information: (905) 804-4752



MSDS ID NO.: Revision date:

0133SPE012 01/30/2004

DOCENTION OF THE SUBSTANCE OF THE PARAMETER AND AND HELE OF THE SUBSTANCE OF THE PARAMETER AND AND HELE OF THE SUBSTANCE OF T

Product name:

SSA Propane

Synonyms:

Liquified Petroleum Gas, SSA; LPG, SSA; Propane, SSA; SSA Liquified Petroleum

Gas

Chemical Family:

Aliphatic Hydrocarbon

Formula:

CH3CH2CH3

Supplier:

Speedway/Superamerica LLC

P O BOX 1500 ENON OH 45501

Other information:

419-421-3070

Emergency telephone number:

877-627-5463

2 COMPOSITION/INFORMATION ON INGREDIENTS

Propane is an aliphatic petroleum hydrocarbon. Ethyl mercaptan (15-25 ppm) is added as an odorant. The odor threshold of the mercaptan is 1 ppb.

Product information

	Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
	SSA Propane	74-98-6	100	= 2500 ppm TWA	= 1000 ppm TWA	
1		1			= 1800 mg/m³ TWA	

Component Information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Propane	74-98-6	90-100	= 2500 ppm TWA	= 1000 ppm TWA = 1800 mg/m³ TWA	
Propylene	115-07-1	1-5			ACGIH Simple asphyxiant
Ethane	74-84-0	000.5000 - 003.0000			ACGIH Simple asphyxiant
Butane & Heavier	Mixture	0-2.5			
Sulfur	7704-34-9	< 0010.0100			

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

MSDS ID NO.: 01335PE012

Product name: SSA Propane

Page 1 of 9

PROPANE IS A COLORLESS GAS OR LIQUID STENCHED WITH A FOUL SULFUR SMELLING ODORANT. IT IS SHIPPED OR TRANSPORTED AS A LIQUIFIED GAS UNDER PRESSURE. THIS PRODUCT IS EXTREMELY FLAMMABLE AND EXPLOSIVE. AT HIGH CONCENTRATIONS THIS PRODUCT IS A SIMPLE ASPHYXIANT, WHICH DISPLACES OXYGEN FROM THE BREATHING ATMOSPHERE. MAY CAUSE SKIN AND EYE BURNS UPON LIQUID CONTACT. LARGE RELEASES CAN CREATE A FLAMMABLE VAPOR CLOUD.

OSHA WARNING LABEL:

DANGER! EXTREMELY FLAMMABLE. LIQUID AND GAS UNDER PRESSURE. LIQUID CAN CAUSE FROST BURNS.

CONSUMER WARNING LABEL:

A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation: Product is an anesthetic at high concentrations, producing dizziness, headache,

incoordination and narcosis; extremely high concentrations can cause asphyxiation

and death by displacement of oxygen from the breathing atmosphere.

Ingestion: Ingestion not likely.

Skin contact: Vapor is generally non-irritating to skin. Direct contact with liquified product can

cause "cold burn" or frostbite.

Eye contact: Vapor is generally non-irritating to eyes. Direct contact with liquified product can

cause "cold burn" or frostbite.

Carcinogenic Evaluation:

Product information

i roduce mitormation				
Name	IARC:	NTP:	ACGIH -	OSHA - Select
			Carcinogens:	Carcinogens:
SSA Propane	NE			
74-98-6				

Notes:

The International Agency for Research on Cancer (IARC) has not evaluated this product.

Component Information

Name	IARC:	NTP:	ACGIH -	OSHA - Select
			Carcinogens:	Carcinogens:
Propylene			A4 - Not Classifiable as a	
115-07-1			Human Carcinogen	

Notes:

The International Agency for Research on Cancer (IARC) has concluded that

propylene is not classifiable as to its carcinogenicity to humans (Group 3).

4. FIRST ALD MEASURES

Inhalation: If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not

breathing or if no heartbeat, give artificial respiration or cardiopulmonary

resuscitation (CPR). Immediately call a physician.

Skin contact: If liquified product has caused a "frost burn", remove contaminated clothing. Thaw

frostbitten areas slowly with lukewarm water or by wrapping affected areas with blankets. Do not rub affected areas. Let circulation reestablish itself naturally,

exercising area if possible. Call a physician.

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

Page 2 of 9

Ingestion:

Indestion not likely. If swallowed, immediately call a physician.

Eye contact:

Liquid: Flush with large amounts of tepid water for at least 15 minutes. Immediately

call a physician.

Gas: Call a physician if symptoms or irritation occur.

exposure:

Medical conditions aggravated by Inhalation of high vapor concentrations of components of this product in animals has produced cardiac sensitization. Such sensitization may cause changes in heart rhythms. This latter effect was shown to be enhanced by oxygen deficiency or the

injection of adrenalin-like agents.

Suitable extinguishing media:

Specific hazards:

Special protective equipment for firefighters:

Flash point:

Autoignition temperature:

Flammable limits in air - lower (%): Flammable limits in air - upper (%):

NFPA rating:

Health: 1

Flammability: 4 Reactivity: 0

Other: -

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

This product has been determined to be a flammable gas/liquid per the OSHA Hazard Communication Standard, and should be handled accordingly. For additional fire related information see NFPA 30 or North American

Emergency Response Guide 115.

Bleve's (boiling liquid expanding vapor explosions) can occur when a liquid in a pressurized container in close proximity to a fire reaches a temperature well above its boiling point. Its effect could lead to a catastrophic failure of the vessel resulting in flying equipment fragments, a shock wave and a fireball causing serious damage and death. Isolate hazard area. If safe to do so, stop the flow of gas and allow fire to burn out. Extinguishing the flame before shutting off the supply can cause the formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use extreme caution when fighting liquefied petroleum gas fires. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Avoid use of solid water streams. Contact with water and liquified product can cause increased vaporization.

-156 F

871 F

2.1

9.5

HMIS classification:

Health: 1

Flammability: 4

Reactivity: 0

Special: *See Section 8 for guidance in selection of

personal protective equipment.

Personal precautions:

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Leaking containers should be moved outdoors or to well-ventilated area and contents transferred to a suitable container. Product vapor is heavier than air and can collect in low areas that are without sufficient ventilation. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer.

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

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PALAMBILING AND SWORAGES

Handling:

Product is stored as a liquid but used in the gaseous state. Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Avoid overpressurizing or overfilling cylinders. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

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PERSONAL PROTECTIVE EQUIPMENT

Engineering measures: Local or general exhaust required in an enclosed area or with inadequate ventilation.

Respiratory protection: Use atmosphere supplying respirators in the event of oxygen deficiency, when

material produces vapors that exceed permissible limits or when excessive vapors are generated. Observe respirator protection factor criteria cited in ANSI Z88.2.

Self-contained breathing apparatus should be used for fire fighting.

Skin and body protection: Wear insulated gloves to prevent skin contact and frostbite.

Eye protection: Use goggles or face-shield if there is a potential for splashing.

Hygiene measures: Use mechanical ventilation equipment that is explosion-proof.

DEPENSIONE AND TOTAL SMICH SERVICES

Appearance: Colorless Liquified Gas

Physical state (Solid/Liquid/Gas):

Substance type (Pure/Mixture):

Color:

Color:

Colorless

Rotten-egg.

Molecular weight:

PH:

Not determined.

No data available.

pH: No data available.

Boiling point/range: -43.7 F

Melting point/range:

Decomposition temperature:

Specific gravity:

-30.7

-305.8 F

Not applicable.

51 Liquid

Density: 4.4 lbs/gal @ 32 F
Bulk density: No data available.

Vapor density: 1.56

Vapor pressure: 7600 mm Hg @ 80 F

Evaporation rate: 7500 him 19 @ 65 P

Evaporation rate: 7500 him 19 @ 65 P

Evaporation rate: 7500 him 19 @ 65 P

No data available.

Solubility: Moderate 6.5% Solubility in other solvents: No data available.

Partition coefficient (n-octanol/water):

VOC content(%):

No data available.

No data available.

Viscosity: No data available.

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Stability: The material is stable at 70 F, 760 mm pressure.

MSDS ID NO.: 0133SPE012 Product name: SSA Propane Page 4 of 9

Polymerization:

Will not occur.

Hazardous decomposition products:

Combustion produces carbon monoxide.

Materials to avoid:

Strong oxidizers such as nitrates, perchlorates, chlorine,

fluorine.

Conditions to avoid:

Sources of heat or ignition.

Established the control of the contr

Acute toxicity:

Product information

Name	CAS Number	Inhalation:	Dermal:	Oral:
SSA Propane	74-98-6	>4000,000 ppm for 6 hr	n/a	n/a
		[Rai]		

Some of the major components of this product are considered to be simple asphyxiant gases without significant potential for systemic toxicity. At high concentrations, these gases act as asphyxiants by diluting and displacing oxygen. Symptoms of persons exposed to oxygen deficient atmospheres include headache, dizziness, incoordination, cyanosis and narcosis. Extremely high concentrations can produce unconsciousness followed by death.

At extremely high concentrations and excessive exposure conditions components of this product may produce cardiac sensitization.

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Ecotoxicity effects:

Liquid product is not toxic to aquatic life or waterfowl. The aquatic 96 hour TLM for

propane is >100 ppm.

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Cleanup Considerations:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 261). However, when discarded or disposed of, it may meet the criteria of an "ignitable" hazardous waste (D001). This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Bleeding off small amounts of this product into the atmosphere or controlled incineration of large amounts are potential disposal methods provided all regulatory requirements are met.

THE PROPERTY OF THE PROPERTY O

49 CFR 172,101:

DOT:

Transport Information:

This material when transported via US commerce would be regulated by DOT

Regulations.

Proper shipping name: UN/Identification No:

Propane UN 1978

Hazard Class:

2.1

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

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Packing group:

DOT reportable quantity (lbs):

Not applicable. Not applicable.

TDG (Canada):

Proper shipping name:

UN/Identification No: Hazard Class:

Packing group: Regulated substances:

Propane UN 1978

2.1

Not applicable.

Not applicable.

Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA

Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication

Standard

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product contains the following component(s) that have been listed on EPA's

Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Propane	NA NA
Propylene	NA NA
Ethane	NA NA
Butane & Heavier	NA NA
Sulfur	NA

SARA Section 304:

This product contains the following component(s) identified either as an EHS or a

CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Propane	NA NA
Propylene	NA NA
Ethane	NA NA
Butane & Heavier	NA NA
Sulfur	NA NA

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard.

Fire Hazard.

Sudden Release Of Pressure.

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

None

Name	CERCLA/SARA 313 Emission reporting:
Propane	None
Propylene	= 1.0 percent de minimis concentration
Ethane	None
Butane & Heavier	None

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

MSDS ID NO.: 0133SPE012

Sulfur

Product name: SSA Propane

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Propane

Louisiana Right-To-Know; Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: sn 1594 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida substance List: Not Listed.

Rhode Island Right-To-Know: Toxic, Flammable

Michigan critical materials register list: Not Listed. Massachusetts Extraordinarily Hazardous Not Listed

Substances:

Not Listed California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Not Listed

Substances:

New Jersey - Special Hazardous Substances: flammable - fourth degree

New Jersey - Environmental Hazardous SN 1594

Substances List:

Illinois - Toxic Air Contaminants Not Listed New York - Reporting of Releases Part 597 -Not Listed

List of Hazardous Substances:

Propylene

Not Listed Louisiana Right-To-Know: California Proposition 65: Not Listed New Jersey Right-To-Know: sn 1609

Pennsylvania Right-To-Know: environmental hazard

Massachusetts Right-To Know: Present Florida substance List: Not Listed.

Rhode Island Right-To-Know: Toxic, Flammable

Michigan critical materials register list: Not Listed. Massachusetts Extraordinarily Hazardous Not Listed

Substances:

California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed

Substances:

New Jersey - Special Hazardous Substances. flammable - fourth degree SN 1609

New Jersey - Environmental Hazardous

Substances List:

Illinois - Toxic Air Contaminants Not Listed

New York - Reporting of Releases Part 597 -Not Listed

List of Hazardous Substances:

Ethane

Louisiana Rìght-To-Know: Not Listed California Proposition 65: Not Listed New Jersey Right-To-Know: sn 0834 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Not Listed. Florida substance List: Rhode Island Right-To-Know: Toxic Not Listed.

Michigan critical materials register list: Massachusetts Extraordinarily Hazardous Not Listed

Substances:

California - Regulated Carcinogens: Not Listed Pennsylvania RTK - Special Hazardous Not Listed

Substances:

flammable - fourth degree New Jersey - Special Hazardous Substances:

MSDS ID NO.: 0133SPE012 Page 7 of 9 Product name: SSA Propana

New Jersey - Environmental Hazardous SN 0834; NJ uses UN1035 for reporting purposes Substances List: Illinois - Toxic Air Contaminants Not Listed New York - Reporting of Releases Part 597 -Not Listed List of Hazardous Substances: **Butane & Heavier** Louisiana Right-To-Know: Not Listed California Proposition 65: Not Listed Not Listed. New Jersey Right-To-Know: Pennsylvania Right-To-Know: Not Listed. Massachusetts Right-To Know: Not Listed. Not Listed. Florida substance List: Rhode Island Right-To-Know: Not Listed Not Listed. Michigan critical materials register list: Massachusetts Extraordinarily Hazardous Not Listed Substances: Not Listed California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Not Listed Substances: New Jersey - Special Hazardous Substances: Not Listed New Jersey - Environmental Hazardous Not Listed Substances List: Illinois - Toxic Air Contaminants Not Listed Not Listed New York - Reporting of Releases Part 597 -List of Hazardous Substances: Sulfur Louisiana Right-To-Know: Not Listed Not Listed California Proposition 65: New Jersey Right-To-Know: sn 1757 Pennsylvania Right-To-Know: [present] Massachusetts Right-To Know: Present Florida substance List: Not Listed. Rhode Island Right-To-Know: Flammable

Canadian Regulatory Information:

Michigan critical materials register list:

California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous

Illinois - Toxic Air Contaminants

List of Hazardous Substances

Massachusetts Extraordinarily Hazardous

New Jersey - Special Hazardous Substances. New Jersey - Environmental Hazardous

New York - Reporting of Releases Part 597 -

Canada DSL/NDSL Inventory.

MSDS ID NO.: 0133SPE012

Substances:

Substances:

Substances List:

This product and/or its components are listed either on the Domestic Substances List (DSL) or the Non Domestic Substance List (NDSL).

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Propane	A; B1	
Propylene	A; 81	
Ethane	A; 81	•
Sulfur	64	

Not Listed.

Not Listed

16EON EIER ENEORMATION

Additional Information:

No data available.

Prepared by:

Craig M. Parker Manager, Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Speedway SuperAmerica (SSA) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. SSA assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet

MSDS ID NO.: 0133SPE012 Product name: SSA Propane Page 9 of 9



REGULAR UNLEADED GASOLINE

Section 1 Chemical Product and Company Information

PRODUCT USE...... Motor Fuel

Section 2 Composition/Information on Ingredients

Component	CAS No.	Amount (Vol%)
LIGHT PETROLEUM DISTILLATE	8006-61-9	0 - 99.9
TOLUENE	108-88-3	0 - 30
XYLENE	1330-20-7	0 - 25
CYCLOHEXANE	110-82-7	0 - 9
ETHYL BENZENE	100-41-4	0 - 5
N-HEXANE	110-54-3	0 - 5
NAPHTHALENE	91-20-3	0 - 5
1,2,4-TRIMETHYLBENZENE	95-63-6	0-5
BENZENE	71-43-2	0.1 - 4.9
CUMENE	98-82-8	0 - 1

EXPOSURE GUIDELINES

	CAS No.	Governing Body	Exposure Limits		
BENZENE	71-43-2	ACGIH	STEL	2.5	ppm
BENZENE	71-43-2	OSHA	STEL	5	ppm
BENZENE	71-43-2	ACGIH	TWA	0.5	ppm
BENZENE	71-43-2	OSHA	TWA	1	ppm
CUMENE	98-82-8	ACGIH	TWA	50	ppm
CUMENE	98-82-8	OSHA	TWA	50	ppm
CYCLOHEXANE	110-82-7	ACGIH	TWA	100	ppm
CYCLOHEXANE	110-82-7	OSHA	TWA	300	ppm
ETHYL BENZENE	100-41-4	ACGIH	STEL	125	ppm
ETHYL BENZENE	100-41-4	ACGIH	TWA	100	ppm
ETHYL BENZENE	100-41-4	OSHA	TWA	100	ppm
N-HEXANE	110-54-3	ACGIH	TWA	50	ppm
N-HEXANE	110-54-3	OSHA	TWA	500	ppm
NAPHTHALENE	91-20-3	ACGIH	STEL	15	ppm
NAPHTHALENE	91-20-3	ACGIH	TWA	10	ppm
NAPHTHALENE	91-20-3	OSHA	TWA	10	ppm
TOLUENE	108-68-3	OSHA	С	300	ppm
TOLUENE	108-88-3	NIOSH	STEL	150	ppm
TOLUENE	108-88-3	ACGIH	TWA	50	ppm
TOLUENE	108-88-3	OSHA	TWA	200	ppm
XYLENE	1330-20-7	ACGIH	STEL	150	ppm
XYLENE	1330-20-7	ACGIH	TWA	100	ppm
XYLENE	1330-20-7	OSHA	TWA	100	ppm
LIGHT PETROLEUM DISTILLATE	3006-61-9	ACGIH	STEL	500	ppm
LIGHT PETROLEUM DISTILLATE	8006-61-9	ACGIH	TWA	300	ppm



REGULAR UNLEADED GASOLINE

Section 3 Fire and Explosion Hazard of Product			
CONDITIONS OF FLAMMABILITY	Use dry chemical, foam or carbon dioxide to extinguish fire. Use water spray to disperse gas or vapor and to protect personnel attempting to		
	stop a leak. Use water to flush spills away from sources of ignition. Do not flush down public sewers.		
FLASHPOINT & METHOD OF DETERMINATION	-37.00°C (-35°F) TCC		
UPPER EXPLOSION LIMIT (% BY VOL.)	7.6		
LOWER EXPLOSION LIMIT (% BY VOL.)	1.4		
AUTO-IGNITION TEMPERATURE	. 444,00°C (833°F)		
HAZARDOUS COMBUSTION PRODUCTS	. Smoke or combustion.		
EXPLOSION DATA	Irritating or toxic substances may be emitted upon thermal		
	decomposition. Dangerous when exposed to heat or explosion hazard.		
	Runoff to sewer may cause fire or explosion. Containers may explode in heat of fire.		
SENSITIVITY TO STATIC DISCHARGE	N/A		

Hazards Ratings:

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme						
,	<u>Health</u>	<u>Fire</u>	Reactivity	PPI		
JEDΔ	1	3	a			

HMIS 2 3 0 X

Section 4 First Aid Measures

Oecile	71 4 First Aid Measures
DIFIC FIRST AID PROCEDURES	
SKIN CONTACT	Remove contaminated clothing immediately. Wash area
	of contact thoroughly with soap and water. Get medical attention if
	irritation persists. High pressure injections are serious medical
	emergencies. Get immediate medical attention.
INGESTION	DO NOT INDUCE VOMITING BECAUSE OF DANGER OF
	ASPIRATING LIQUID INTO LUNGS. Get immediate medical attention.
	If spontaneous vomiting occurs, monitor for breathing difficulty.
INHALATION	Remove affected person from source of exposure. If not breathing
	ensure open airway and institute CPR. If breathing is difficult, administer
	oxygen if available. Get medical attention.
EYE CONTACT	Flush immediately with large amounts of water for at least 15 minutes.
	Eyelids should be held away from eyeball to ensure thorough rinsing.
	Get medical attention if imitation persists.

Section 5 Fire Fighting Measures

EXTINGUISHING MEDIA

The following media may be used to extinguish a fire involving this material: Water spray: Regular foam; Dry chemical; Carbon dioxide:

FIRE FIGHTING INSTRUCTIONS

Use water spray to cool fire exposed tanks and containers. Wear structural fire fighting gear. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SPEC



REGULAR UNLEADED GASOLINE

Section 5 Fire Fighting Measures (continued)

FLAMMABLE PROPERTIES

	Typical	Minimum	Maximum	Text Result	Units	Method
Flash Point				-40 ESTIMATED	F	N/A
Autoignition Temperature				750 ESTIMATED	F	N/A
Lower Explosion Limit	1.5				%	N/A
Upper Explosion Limit	7.6				%	N/A

Section 6 Accidental Release Measures

ACTIVATE FACILITY SPILL CONTINGENCY OF EMERGENCY PLAN

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction: stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater. Professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if it is safe to do so. Protect bodies of water by diking, absorbents or absorbent boom. Do not flush down sewer or drainage system. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or area/equipment that require protection.

Take up with sand or other absorbent materials. Carefully shovel or sweep up into a waste container for reclamation or disposal—use caution because flammable vapors may accumulate in closed containers.

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see section 8)

Section 7 Handling and Storage

HANDLING

Use only in a well-ventilated area. Ground and bond containers when transferring material. NFPA class IA storage. Flash point is less than 73 degrees F and boiling point is less than 100 degrees F. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Never siphon by mouth.

STORAGE

Keep away from heat, sparks, and flame. Keep container closed when not in use. Consult NFPA and I or OSHA codes for additional information.

Section 8 Exposure Controls and Personal Protection

Consult With a Health and Safety Professional for Specific Selections

- ENGINEERING CONTROLS
 - Use with adequate ventilation. Use explosion-proof ventilation equipment.
- PERSONAL PROTECTION
 - EYE PROTECTION

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).



REGULAR UNLEADED GASOLINE

Section 8 Exposure Controls and Personal Protection (continued)

GLOVES or HAND PROTECTION

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Polyethylene; Neoprene; Nitrile; Polyvinyl alcohol; Viton;

RESPIRATORY PROTECTION

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

OTHER

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyethylene; Neoprene; Nitrile; Viton: Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, positive pressure SCBA and structural firefighter's protective clothing will provide only limited protection.

Section 9 Physical /Chemical Properties

overling / rigstour/onethods / roperties			
HYSICAL STATE	Not determined		
ODOUR AND APPEARANCE	Clear liquid with a strong hydrocarbon odor		
ODOUR THRESHOLD	Not Determined		
SPECIFIC GRAVITY	0,72 - 0. 74 @ 60°F		
VAPOUR PRESSURE	760.00 MM HG @ 1 00°F		
VAPOUR DENSITY (air=1)	1.2 as Vapor		
EVAPORATION RATE	(Water = 1); >1		
BOILING POINT	. 13.0°C (55°F)		
FREEZING POINT	Not determined		
pHHq	Not determined		
COEFFICIENT OF WATER/OIL DISTRIBUTION	Negligibl e		
% VOLATILE	100 % by weight		

Section 10 Stability and Reactivity Data

CHEMICAL STABILITY	
INCOMPATIBLE MATERIALS	Avoid contact with strong oxidizers.
CONDITIONS TO AVOID	Avoid heat, sparks, and open flame
CONDITIONS OF REACTIVITY	Stable under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion may produce CO, CO ² and reactive hydrocarbons

Section 11 Toxicological Information

POTENTIAL HEALTH EFFECTS

PRE-EXISTING MEDICAL CONDITIONS

The following diseases or disorders may be aggravated by exposure to this product: Skin; Eye; Blood forming organs; Nervous system, Respiratory system: Lung (asthma-like conditions); Cardiovascular system,



REGULAR UNLEADED GASOLINE

Section 11 Toxicological Information (continued)

INHALATION

High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness and even death). Excessive exposure to mists or vapors generated by heat may cause irritation to eyes, nose, throat, lungs and respiratory tract. Repeated excessive exposures may cause blood disorders such as anemia and leukemia. Contains a material that has been related to cancer in humans.

LC50 (mg/l):

no data

LC50 (mg/m3):

no data

LC50 (ppm):

no data

SKIN

Moderately irritating to the skin. Skin absorption of material may produce systemic toxicity. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Draize Skin Score:

4.8 Out of 8.0

LD50 (mg/kg):

no data

EYES

Moderately irritating to the eyes.

INGESTION

Product may be harmful or fatal if swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. Irritating to mouth, throat, and stomach.

LD50 (q/kg):

no data

Section 12 Ecological Information

Keep out of sewers, drainage areas, and waterways. Report spills and releases under Federal and State regulations,

Section 13 Disposal Considerations

This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however it could be hazardous if it is considered toxic, corrosive, ignitable, or reactive according to Federal definitions.

Section 14 Transportation Information

HAZARD CLASS...... 3, flammable liquid

Section 15 Regulatory Information

US FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and it's constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and or local reporting requirements. This product and/or it's constituents may also be subject to other federal, state, or local regulations. Consult the regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to navigable waters or adjoining shorelines sufficient to cause any visible sheen or deposit of a studge or emulsion must be reported immediately to the National Resource Center (1-800-424-8802) or, if not practical, the U.S.:

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REGULAR UNLEADED GASOLINE

Section 15 Regulatory Information (continued)

Coast Guard with follow-up to the National Response Center as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTON 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g. SARA Section 304 as well as the Clean Water Act, if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
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REGULAR UNLEADED GASOLINE

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	DISTILLATE	
Inventory - TSCA - Sect. 8(b) Inventory	N-HEXANE	110-54-3
Inventory - TSCA - Sect. 8(b) Inventory	NAPHTHALENE	91-20-3
Inventory - TSCA - Sect. 8(b) Inventory	TOLUENE	108-88-3
Inventory - TSCA - Sect. 8(b) Inventory	XYLENE	1330-20-7
OSHA - Final PELs - Ceiling Limits	BENZENE	71-43-2
OSHA - Final PELs - Ceiling Limits	TOLUENE	108-88-3
OSHA - Final PELs - Skin Notations	CUMENE	98-82-8
OSHA - Final PELs - Time Weighted Averages	BENZENE	71-43-2
OSHA - Final PELs - Time Weighted Averages	CUMENE	98-82-8
OSHA - Final PELs - Time Weighted Averages	CYCLOHEXANE	110-82-7
OSHA - Final PELs - Time Weighted Averages	ETHYL BENZENE	100-41-4
OSHA - Final PELs - Time Weighted Averages	N-HEXANE	110-54-3
OSHA - Final PELs - Time Weighted Averages	NAPHTHALENE	91-20-3
OSHA - Final PELs - Time Weighted Averages	TOLUENE	108-88-3
OSHA - Final PELs - Time Weighted Averages	XYLENE	1330-20-7
OSHA - Regulated Carcinogens	BENZENE	71-43-2
OSHA - Regulated Carcinogens OSHA - Select Carcinogens	BENZENE	71-43-2
Pennsylvania - RTK (Right to Know) List	1,2,4-TRIMETHYLBENZENE	95- 63- 6
	BENZENE	71-43-2
Pennsylvania - RTK (Right to Know) List	CUMENE	71-43-2 98-82-8
Pennsylvania - RTK (Right to Know) List	CYCLOHEXANE	
Pennsylvania - RTK (Right to Know) List	CTULUTENAINE	110-82-7



TSCA - Section 8(a) - PAIR Reporting List

Material Safety Data Sheet

REGULAR UNLEADED GASOLINE

Section 15 Regulatory Information (continued)

		400000
Pennsylvania - RTK (Right to Know) List	THYL BENZENE	100-41-4
Pennsylvania - RTK (Right to Know) List	N-HEXANE	110-54-3
Pennsylvania - RTK (Right to Know) List	NAPHTHALENE	91-20-3
Pennsylvania - RTK (Right to Know) List	TOLUENE	108-88-3
Pennsylvania - RTK (Right to Know) List	XYLENE	1330-20-7
Pennsylvania - RTK - Special Hazardous Substances	BENZENE	71-43-2
TSCA - Sect. 12(b) - Export Notification	CYCLOHEXANE	110-82-7
TSCA - Sect. 12(b) - Export Notification	N-HEXANE	110-54-3

Section 16 Other Information

Precautionary labeling for pumps, portable containers, and drums is required. A "hazardous when empty" pictogram and D.O.T. flammable liquid label are also required for drums. Details available upon request. Because benzene is present in this product above 0.1%, the OSHA Standard for benzene is applicable to work locations upstream of final discharge from terminals. Consult 29CFR1910.1028 for details. Prolonged and repeated excessive exposures to benzene can result in blood disorders ranging from anemia to leukemia. Sun recommends that exposures to benzene be kept below 1.0 ppm for 8-hours; 5.0 ppm for 15-min. Normal service station operations are below these values. For use as motor fuel only. Do not use for any other purpose. Catecholamines and similar adrenergic drugs are generally contraindicated because of potential for increased sensitivity of the heart from hydrocarbon overexposure and subsequent ventricular fibrillation. EKG monitoring may be indicated and bronchodilators should be selected with care. Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss. COMPONENT TOXICITY: Overexposure to naphthalene, a minor component of this product, may cause skin, eye and respiratory tract irritation, anemia, loss of vision, nervous system effects and kidney and thymus damage. Also, exposure to naphthalene has produced "respiratory tract" tumors in laboratory animals.

Preparation Date of Material Safety Data Sheet			
DATE PREPAREDREVISION DATE			

DISCLAIMER: Information presented herein has been complied from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing here in is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained by using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of material supplied by us.



Poly-Drill Drilling Systems

1824 - 104 Avenue, S.W. Calgary, Alberta, Canada T2W-OA8

Calgary, Alberta, Canada T2W-OA8 (403) 259-5112 FAX (403) 255-7185 email: polydril@telus.net

www.poly-drill.com



MATERIAL SAFETY DATA SHEET/FICHE SIGNALETIQUE

1. PRODUCT IDENTIFICATION

PRODUCT TRADE NAME:

Poly-Drill 133-X

PRODUCT DESCRIPTION

LIQUID ANIONIC POLYMER

CHEMICAL DESCRIPTION:

Polymer, Surfactant(s), Water, Hydrocarbon solvent

UPDATED March 15, 2004

NFPA704M/HMIS RATING

HEALTH: 0/1

FLAMMABILITY:

1/1

REACTIVITY: 0/0

OTHER:

0=Insignificant

1=Slight

2=Moderate

3=High

4=Extreme

2. COMPOSITION

A liquid polymer: Evaluation of the ingredient(s) has found no ingredient(s) hazardous as per WHMIS regulations. None of the substances in this product are hazardous.

3. PHYSICAL DATA

Flash Point: >100°C (PMCC)
Specific Gravity (@ 25°C.): 1.08
Solubility in Water: Emulsifiable

pH: 8.1 (1.0% solution)

Freeze Point: -10 °C (14 Degrees F)

Density (g/ml): 1.08 at 25 °C Physical State: Liquid Appearance: Blue liquid Odor: Hydrocarbon

Note: These physical properties are typical values for this product.

4. FIRE AND EXPLOSION DATA

INCOMPATIBILITY: Avoid contact with strong exidizers (eg. Chlorine, peroxides, chromates, nitric acid, perchiorates, concentrated exygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSTION PRODUCTS: In the event of combustion CO, oxides of carbon (COx), oxides of nitrogen (NOx) may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

5. FIRE FIGHTING MEASURES

FLASH POINT: >100°C (PMCC)

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For larger fires, use water spray or fog. thoroughly drenching the burning material.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water unless flooding amounts are available.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve oxides of nitrogen (NOx) under fire conditions.

,6. HEALTH HAZARD DATA

EMERGENCY OVERVIEW:

CAUTION: May cause irritation to skin and eyes. Avoid contact with skin, eyes and clothing. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

PRIMARY ROUTE(S) OF EXPOSURE: Eye & Skin

EYE CONTACT: Can cause mild to moderate irritation SKIN CONTACT: Can cause mild, short-lasting irritation

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

7. EMERGENCY AND FIRST AID PROCEDURES

SKIN: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician. EYE: Immediately flush eyes with water for 15 minutes, if irritation or abnormalities persist, call a physician. INHALATION: Remove to fresh air. If breathing becomes difficult, give oxygen and call a physician. INGESTION: Do not induce vomiting: Call a physician immediately.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water. Call for medical assistance immediately.

8. HANDLING, ACCIDENTAL RELEASE MEASURES & DISPOSAL CONSIDERATIONS

Storage: Keep container tightly closed when not in use.

DISPOSAL:

In Ontario, the waste class under Regulation 347 is: 233L

SMALL SPILLS:

Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.

LARGE SPILLS:

Contain liquid using absorbent material, by digging trenches or by dyking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal gerbage.

ENVIRONMENTAL PRECAUTIONS

This product should NOT be directly discharged into lakes, ponds, streams, waterways or public water supplies,

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state, provincial and federal regulations.

9. INDUSTRIAL HYGIENE CONTROL MEASURES.

OCCUPATIONAL EXPOSURE LIMITS:

This product does not contain any substance that has an established exposure limit.

Respiratory Protection: None normally required.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

Ventilation: General ventilation is recommended.

Eye Protection: Safety glasses, if personally preferred

Gioves: Generally not necessary. Personal preference. Examples of impermeable gioves available on the market are neoprene, nitrile, PVC, natural rubber, viton, and butyl (compatibility studies have not been performed).

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

10. TOXICOLOGICAL PROPERTIES

SENSITIZATION:

This product is not expected to be a sensitizer.

A "LC50-96" Pass/Fail Bioassay test. This test determines the lethality of a fluid on young aquatic organisms. The fluid falls if 50% or more of the animals are dead after 96 hours in the fluid.

96 hour static acute LC50 to Rainbow Trout = Greater than 1,000 mg/L

96 hour no observed effect concentration = 125 mg/L based on no mortality or abnormal effects

96 hour static acute LC50 to Sheepshead Minnow = Greater than 1,000 mg/L

96 hour no observed effect concentration = 1,000 mg/L (highest concentration tested) based on no mortality or abnormal effects.

96 hour static scute LC50 to Mysid Shrimp = 400 mg/L

96 hour no observed effect concentration = 180 mg/L based on no mortality or abnormal effects.

96 hour static acute LC50 to Daphnia Magna - 400 mg/L

96 hour no observed effect concentration = 56 mg/L (lowest concentration tested) based on no mortality or abnormal effects.

Microtoxicity

The Microtox bioassay has been established as the reference test for mud additive toxicity testing.

Test Method: Luminescent Bacteria, IC50@ 15 min

Reference: Appendix 1: Microtox Bloassay Procedure, Drilling Waste Management, Guide G50. 1993. Alberta Energy and Utilities Board, Calgary, AB, Canada.

Sample: Poly Drill 1330, sample #97324-1 for test #970723, 97/05/09 by D. Lintott

Preparation: Sample was diluted to 2 g/L, which formed thick, slightly cloudy liquid. The sample was then centrifuged for 1 hour.

Test Results:

SAMPLE	TREATMENT	%CTL	IC20%	IC50	RESULT
97324-1	None	N/A	14 (9-22)	>91	PASS

The following results are for a 1% aqueous solution of product.

CARCINOGENCITY:

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Government Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION:

Based on our Hazard Characterization, the potential human hazard is: LOW

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION:

Based on our Hazard Characterization, the potential environmental hazard is: LOW,

11. DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

PRODUCT IS NOT REGULATED DURING TRANSPORATION

Shipping Name: Liquid Drilling Additive

Hazard Class: Not hazardous Cautionary Labeling: None required

ALL TRANSPORTATION MODES:

14. OTHER INFORMATION

This information contained herein is given in good faith, but no warranty, expressed or implied is made

Material Safety Data / Fiche signaletique

WESTCOAST DRILLING SUPPLIES LTD. 8069 River Way, Delta, British Columbia, Canada V40 113 Ph. (604) 940-6050 Fax (604) 940-6080

EMEROENCY 1-800-565-6645

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME:

550X® POLYMER

CHEMICAL FAMILY:

Anionic water soluble polymer

FRODUCT USE:

Drilling mud additive

WHMIS CLASSIFICATION:

Not WHMIS regulated

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICTION:

Not applicable

PACKAGE GROUP: UN NUMBER (PIN)

Not applicable Not applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT

PERCENTAGE

CAS NUMBER

LD50

LC50

Copolymer of Accylamide and

Sodium Acrylate

Acrylamide

0.1000

25085-02-3 79-06-1

SECTION III: HEALTH HAZARDS

ROUTES OF ENTRY

[XXX] Skin

[XXX] Eye Contact

[XXX] Inhalation

[XXX] Ingestion

THRESHOLD LIMIT VALVE:

SKIN CONTACT:

Not determined

No effects of exposure expected due to contact.

Prolonged contact may cause slight skin irritation or dormatitis in

some individuals.

EYE CONTACT:

No effects of exposure expected with the exception of mechanical

irritation.

INGESTION:

No adverse effects expected.

Product may swell in throat causing choking.

INHALATION:

May cause meezing, alight irritation of nose and throat.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:

Wash with soap and water as a precaution. In case of persistent skin

icritation, consult a physician.

EYE CONTACT:

Rinse thoroughly with plenty of water, also under the cyclid. In case

of pensistent eye irritation, consult a physician.

INGESTION:

The product is not considered toxic based on studies on laboratory

animals. Do not induce vomiting, give 2-3 glasses of water.

INHALATION:

Moye to fresh air. If not breathing give artificial respiration.

Seek medical attention.

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD.

8089 River Way, Delta, British Columbia, Canada V40 1L8

Ph. (604) 940-6050 Fax (604) 940-8080

EMEROENCY 1-800-665-664

550X® POLYMER

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SECTION V: PHYSICAL DATA

APPEARANCE

ODOR

SPECIFIC GRAVITY BOILING POINT (°C) MELTING POINT (°C)

SOLUBILITY IN WATER PERCENT VOLATILE BY VOLUME

BYAPORATION RATE VAPOR PRESSURE (mm Hg) VAPOR DENSITY (Air=1)

рH

White granular solid

None

0.8 at 25° C (77 F) Not applicable Not determined Forms a gel Not determined

Not determined Not determined Not determined 4-9@5g/L

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

FLAMMABLE LIMITS

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING

PROCEDURES

UNUSUAL FIRE AND EXPLOSION

HAZARDS

93° C (200 F)

Not determined

Dry Chemical, Carbon Dioxide

Aqueous solutions or powders that become wet render surfaces

] Unstable

extremely slippory.

No special equipment required.

SECTION VII: REACTIVITY DATA.

STABILITY

[XXX] Stable

INCOMPATIBILITY (Conditions to avoid) Oxidizing agents CONDITIONS OF REACTIVITY

Not known NOX COX

HAZARDOUS DECOMPOSITION

PRODUCTS

HAZARDOUS POLYMERIZATION

[XXX] Will not occur

] May occur

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD. 6069 River Way, Delta, British Columbia, Canada V4G 1L3 Pts. (604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-665-6645

550X® POLYMER

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SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Dust masks are recommended where concentration of total

dust is more than 10 mg/m2

VENITLATION

General mechanical

PROTECTIVE GLOVES

Chemically resistant

EYE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT (Specify)

Not known

· ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Do not flush with water. Clean up promptly by sweeping or vacuum Keep in suitable and closed containers for disposal. After cleaning, flush away trace with water.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the day. Keep in a cool dry place (0 - 30 °C)

WASTE DISPOSAL METHOD

Can be land filled or incinerated, when in compliance with local, provincial and federal regulations.

SECTION IX: TOXICOLOGICAL INFORMATION

CARCINOGENICITY REPRODUCTIVE TOXICITY TERATOGENICITY

Not determined Not determined

MUTAGENICITY

Not determined Not determined

DEVELOPMENTAL TOXICITY

Not determined

CHRONIC BFFECTS:

This product does not contain any ingredient designated by IARC, NTP, ACCIH or OSHA as probable or suspected human

carcinogens,

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD. 8069 River Way, Delta, British Columbia, Canada Vão 113 Ph. (604) 940-6050 Fax (604) 840-6080

EMERGENCY 1-000-685-8645

550X POLYMER

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SECTION X: PREPARATION

The information contained herein is given in good faith, but no warranty, expressed or implied is made.

DATB ISSUED: August, 2001

DATE REVISED: August, 1998

BY: Product Safety Committees

AMENDMENT HAZARDOUS INGREDIENTS (550X)

Material or component

WT% Hazard data

COPOLYACRYLAMIDE/SODIUM ACRYLATE Not considered bezardous

ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:

OCTANOL/WATER PARTITION COEFFICIENT

WASTE DISPOSAL METHODS:

Not determined Not determined

Incineration and/or disposal in Chemical Landfill.

Disposer must comply with federal, provincial and local disposal of discharge laws.

RCRA STATUS OF UNUSED MATERIAL

IF DISCARDED:

HAZARDOUS WASTE NUMBER:

Not a "Hazardous Waste"

Not available

REPORTABLE QUANTITY:

THRESHOLD PLANNING QUANTITY:

TOXIC CHEMICAL RELEASE REPORTING:

BPA 40 CFR (CERCLA 102);

EPA 40 CRF 355 (SBRA 301-304):

EPA 40 CFR 372 (SBRA 311-313):

Not applicable Not applicable Not applicable

EPA HAZARD CLASSIFICATION CODE:

ACUTE - Yes PIRE - No

CHRONIC - No

PRESSURE - No REACTIVE - No

HMIS AND NFPA RATINGS:

HEALTH

FLAMMABILITY

REACTIVITY

SPECIAL

HMIS

Not applicable

NFPA

1 ø

Not applicable



Section 1. Product and Company Identification

Product Name

Calcium Chloride, Dihydrate

Manufacturer

EMD Chemicals Inc. P.O. Box 70 480 Democrat Road Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries,

For More Information Call 856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM

CALCIUM CHLORIDE Analytical reagent. Inorganic salt.

Material Uses Chemical Family

In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

CX0134

8/20/2004

Product Code

Effective Date

Section 2. Composition and Information on Ingredients Component

CAS#

% by Weight

CALCIUM CHLORIDE, DIHYDRATE

10035-04-8

Section 3. Hazards Identification

Physical State and

Appearance **Emergency Overview** Solid. (Powder or flakes solid. Granular solid.)

CAUTION!

CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Routes of Entry

Absorbed through skin. Dermal contact. Eye contact. Inhalation, Ingestion.

Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant), inflammation of the eye is characterized by redness, watering, and itching

Skin May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling,

reddening, or, occasionally, blistering. Inhalation No known acute effects of this product resulting from inhalation.

Ingestion limitating to mouth, throat and stornach. Ingestion can cause nausea and vomiting

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions Aggravated by

Overexposure:

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact

in case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient

Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

Ingestion

oxygen. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately,

Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature

Auto-ignition Temperature Not available.

Flash Points

Not available.

Flammable Limits

Not available

Products of Combustion

These products are carbon oxides (CO, CO2), halogenated compounds. Some metallic oxides,

Fire Hazards in Presence of Not available.

Various Substances

Explosion Hazards in

Risks of explosion of the product in presence of static discharge: No.

Presence of Various Substances

Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions

SMALL FIRE: Use DRY chemical powder.

Protective Clothing (Fire)

LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire

Not available

Hazards

Special Remarks on Explosion Hazards

Not available

Section 6. Accidental Release Measures

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container.

Spill Kit Information

No specific spill kit required for this product.

Section 7. Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not ingest. Do not

breathe dust.

Sterage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Spiash goggles. Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable

Protective Clothing (Pictograms)



of a Large Spill

Personal Protection in Case Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breatlung apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a

specialist BEFORE handling this product.

Product Name

Exposure Limits

CALCIUM CHLORIDE, DIHYDRATE

Not available

Section 9. Physical and Chemical Properties

Odor

Not available

Color

White.

Physical State and

Solid. (Powder or flakes solid. Granular solid.)

Appearance

Molecular Weight 147/02 g/mote Molecular Formula CaCI2 : 3H2O Not available

pН Boiling/Condensation Point Melting/Freezing Point Specific Gravity

Not available Not available Not available.

Vapor Pressure Vapor Density Odor Threshold Evaporation Rate Not available Not available. Not available. Not available

LogKow Solubility Not available Soluble in water. Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Conditions of Instability

Not available.

Reactive with metals, moisture.

Incompatibility with Various Substances

Not available

Rem/Incompatibility Hazardous Decomposition

These products are halogenated compounds.

Products

Will not occur. Hazardous Polymerization

Section 11. Toxicological Information

RTECS Number:

Calcium Chloride, Dihydrate

EV9810000

Toxicity

LD50: Not available

LC50: Not available.

Chronic Effects on Humans Not available.

Acute Effects on Humans Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering,

and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by

itching, scaling, reddening, or, occasionally, blistering.

Synergetic Products (Toxicologically)

Not available.

Irritancy

Draize Test: Not available.

Sensitization

Not available.

Carcinogenic Effects

This material is not known to cause cancer in animals or humans.

Toxicity to Reproductive

Not available.

System Teratogenic Effects

Not available

Mutagenic Effects

Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical

Substances (RTECS).

Section 12. Ecological Information

Ecotoxicity

Not available. Not available.

BOD5 and COD

Toxicity of the Products of The products of degradation are more toxic than the product itself.

Biodegradation

Section 13. Disposal Considerations

EPA Waste Number

Treatment

Material does not have an EFA Waste Number and is not a listed waste, however consultation with a

permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal

(TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification

Proper Shipping Name: CHEMICALS, N.O.S.

TDG Classification

RQ: Not applicable Not available

IMO/IMDG

Proper Shipping Name: CHEMICALS, N.O.S.

Classification

RQ: Not applicable.

ICAO/IATA

Not available

Classification

+Section 15. Regulatory Information U.S. Federal Regulations

TSCA 8(b) inventory: Calcium Chloride, Dihydrate

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Calcium Chloride, Dihydrate

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Calcium Chloride,

Dihydrate: Immediate (Acute) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. WHMIS (Canada)

Clean air act (CAA) 112 regulated toxic substances: No products were found.

Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: CALCIUM CHLORIDE

This product has been classifed in occordance with the hazard criteria of the Controlled Product

Regulations and the MSDS contains all required information.

International Regulations

EINECS DSCL (EEC) Not available. R38- Irritating to skm.

R41- Risk of serious damage to eyes. International Lists

Australia (NICNAS): Calcium Chloride, Dihydrate

Japan (MITI): Calcium Chloride, Dihydrate

Philippines (RA6969): Calcium Chloride, Dihydrate

China: No products were found.

State Regulations

No products were found.

California prop. 65: No products were found.

Section 16. Other Information

National Fire Protection Association (U.S.A.)

Fire Hazard

Reactivity

Specific Hazard

Changed Since Last Revision

Notice to Reader

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