

IRIS - Integrated Risk Information System

NFPA - National Fire Prevention Association

NPRI - National Pollutant Release Inventory

NTP - National Toxicology Program

PEL - Permissible Exposure Limit

TLm - Median Tolerance Limit

TSCA - Toxic Substances Control Act

USP - United States Pharmacopoeia

SD - Single Dose

LD50/LC50 - Lethal Dose/Concentration kill 50%

LDLo/LCLo - Lowest Published Lethal Dose/Concentration

NIOSH - National Institute for Occupational Safety & Health

NSNR - New Substances Notification Regulations (Canada)

RTECS - Registry of Toxic Effects of Chemical Substances

TLV-TWA - Threshold Limit Value-Time Weighted Average

WHMIS - Workplace Hazardous Material Information System

USEPA - United States Environmental Protection Agency

SARA - Superfund Amendments and Reorganization Act

OSHA - Occupational Safety & Health Administration

RCRA - Resource Conservation and Recovery Act

STEL - Short Term Exposure Limit (15 minutes)

TDG - Transportation Dangerous Goods (Canada)
TDLo/TCLo - Lowest Published Toxic Dose/Concentration

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

Section 16. Other Information

References

Available upon request.

* Marque de commerce de Petro-Canada - Trademark

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
(Furge)

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

For Copy of MSDS

Prepared by Product Safety - TLM on 11/8/2004.

Data entry by Product Safety - RS.

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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.





Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
	Not controlled	50	Ø

Section 1, Ci	Section 1. Chemical Product and Company Identification				
Product Name	DURON 10W-30 HEAVY DUTY ENGINE OIL	Code	420-051, DUR13		
Synonym	Not available	Validated	on 5/9/2006.		
Manufacturer		In case of Emergenc	χ3000 Canutec Transportation: 613-996-6666		
Material Uses	DURON* 10W-30 engine oil may be used in a wide range of compression and spark ignition engines in mobile and stationary equipment where this viscosity grade is recommended. The product may also be used in many types of wet clutch transmissions and hydraulic systems.		Poison Control Centre Consult local telephone directory for emergence number(s).		

·····		·		Ехр	osure Limits (ACGIH)
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Mixture of severely hydrotreated and hydrocracked and/or solvent-refined base oil (petroleum) and other proprietary, non-hazardous additives.		Mixture	100	5 mg/m³ (oil mist)	10 mg/m³ (oil mist)	Not established
Manufacturer Recommendation	Not applicable					
Other Exposure Limits	Consult local, state, provincial	or territory au	thorities for a	icceptable exposure	limits.	

Section 3. Haza	ards Identification.
Potential Health Effects	Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight skin or eye irritation. With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to Section 11 of this MSDS.

Section 4. First	Aid Measures
Eye Contact	No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice.
Skin Contact	Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed. Remove contaminated clothing, shoes and leather goods (e.g., watchbands, belts, etc.). If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Inhalation	Remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. 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, rinse mouth and repeat administration of water. Obtain medical attention.
Note to Physician	Not available

Section 5. Fil	re-fighting Measures			
Flammability	May be combustible at high temperature.	Flammable Límits	Not available	· · · · · · · · · · · · · · · · · · ·
Flash Points	OPEN CUP: 231°C (448°F) (Cleveland)	Auto-Ignition Temperature	Fire Point: 257°C (495°F)	
Continued on Next	Page Internet: www.petro-	canada ca/msds		Available in French

IE OIL	***************************************	Page Number: 2
nazard. This material must be ore ignition will occur.	Explosion Hazards in	Do not cut, weld, heat, drill or pressu empty container. Containers may expl

DURUN 10W-30 HEA	AVY DOTY ENGINE OIL		Page Number: 2
Fire Hazards in Presence of Various Substances		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), sulphur oxides (SOx), calcium oxides (CaOx), zinc compounds, smoke and irritating vapours as products of incomplete combustion.		
Fire Fighting Media and Instructions	NAERG2004, GUIDE 171, Substances (low to fire, ISOLATE for 800 meters (0.5 mile) in all mile) in all directions. Shut off fuel to fire if withdraw from area and let fire burn out under sound from venting safety device or any discolars in order to prevent pressure build-up.	directions; also, of it is possible to r controlled condi- louration of tank of	consider initial evacuation for 800 meters (0.5 do so without hazard. If this is impossible, tions. Withdraw immediately in case of rising

fire, ISOLATE for 800 meters (0.5 mile) in all directions; also, consider initial evacuation for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from area and let fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. SMALL FIRE: use DRY chemicals, foam, water spray or CO2. LARGE FIRE: use water spray, fog or foam. For small outdoor fires, portable fire extinguishers may be used, and self contained breathing apparatus (SCBA) may not be required. For all indoor fires and any significant outdoor fires, SCBA is required. Respiratory and eye protection are required for fire fighting personnel.

Section 6. Accidental Release Measures Material Release or Spill Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Ensure clean-up personnel wear appropriate personal protective equipment. Extinguish all ignition sources. Stop leak if safe to do so. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Notify appropriate authorities immediately.

Section 7. I	Handling and Storage
Handling	Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Wear proper personal protective equipment (See Section 8). 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.
Storage	Store away from incompatible and reactive materials (See section 5 and 10). Keep container tightly closed. Store in dry, cool, well-ventilated area.

	Store in dry, cool, well-ventilated area.
Section 8. Expo	sure 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 Protectio Eyes	As a minimum, safety glasses with side shields should be worn when handling this material.
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 minimum of 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. A NIOSH-approved positive-pressure, air-supplied respirator or self-contained breathing apparatus may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
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, Nitrile, 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.

DUDON 10W 30 HEAVY DUTY ENGINE

DURON 10W-30 HEAVY DUTY ENGINE OIL.			Page Number: 3	
Section 9. Phy:	sical and Chemical Properties			
Physical State and Appearance	Viscous liquid.	Viscosity	74.0 cSt @ 40°C (104°F), 11.4 cSt @ 100°C (212°F), VI=146	
Colour	Light amber.	Pour Point	-45°C (-49°F)	
Odour	Mild petroleum oil like.	Softening Point	Not applicable	
Odour Threshold	Not available	Dropping Point	Not applicable	
Boiling Point	Not available.	Penetration	Not applicable	
Density	0.8604 kg/L @ 15°C (59°F)	Oil / Water Dist. Coefficient	Not available	
Vapour Density	Not available	lonicity (in water)	Not available	
Vapour Pressure	Negligible at ambient temperature and pressure.	Dispersion Properties	Not available	

Section 10. Stability and Reactivity			
Corrosivity	Copper corrosion, 3h, 100°C (ASTM D013	80): 1b	
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, acids, halogens and halogen compounds.	Decomposition Products	May release COx, SOx, NOx, SiOx, H2S, aldehydes, alkyl mercaptans, sulfides, methacrylate monomers, smoke and irritating vapours when heated to decomposition.

Solubility

Insoluble in water.

Volatility

Not available

Section 11. Toxicologica	Section 11. Toxicological 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 the bas oils are provided below: Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LC50): >2500 mg/m³/4h (rat)				
Chronic or Other Toxic Effe					
Dermal Route:	Prolonged or repeated contact may defat and dry skin, and cause dermatitis. Short-term exposure is expected to cause only slight irritation, if any.				
Inhalation Route:	With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation.				
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). May produce a laxative effect.				
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:	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):	This product is not known to contain any chemicals at reportable quantities that are listed as Group A1 or A2 carcinogens by ACGIH.				
Continued on Next Page	Internet: www.petro-canada.ca/msds Available in French				

DURON 10W-30 HEAVY DUTY E	NGINE OIL Page Number: 4
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	No additional remark.

Section 12. Ec	ological Information			
Environmental Fate	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	posal 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 Not a hazardous material for transport according to the TDG Regulations. (Canada)	Special Provisions for Transport	Not applicable.

Section 15. Reg	ulatory 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 formula	tion are liste	d on the US EPA-TS0	CA Inventory.	
	All components of this product (EINECS)	t are on the	European Inventory	of Existing Commercial	Chemical Substances
	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.		Products Regulations		
***************************************	Please contact Product Safety		ormation.		
DSD/DPD (Europe)	Not classified under the Dange Substances or Dangerous Pre Directives.		HCS (U.S.A.)	Does not meet the def physical hazard accord Hazard Communication States)	ding to the OSHA -
ADR (Europe)	NOT EVALUATED FOR EUROPEAN TRANSPORT		DOT (U.S.A)	Not evaluated for trans	port
(Pictograms)	NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN,		(Pictograms)	Non évalué pour le trar	nsport
HMIS (U.S.A.)	Health Hazard 1	NFPA (U	.S.A.) 1 Fire	Hazard Rating	0 Insignificant
	Fire Hazard 1			eactivity	1 Slight
	Reactivity 0			cific hazard	2 Moderate 3 High
	Personal Protection B		- Spe	CHIC HAZAIU	4 Extreme

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Section 16. Other Information

References

Available upon request.

* Marque de commerce de Petro-Canada - Trademark

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

CAS - Chemical Abstract Services

CEPA - Canadian Environmental Protection Act

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

CFR - Code of Federal Regulations

CHIP - Chemical Hazard Information and Packaging Approved Supply List

COD - Chemical Oxygen Demand CPR - Controlled Products Regulations

DOT - Department of Transportation (U.S.A.)

DSCL - Dangerous Substances Classification and Labeling (Europe) DSD/DPD - Dangerous Substance or Dangerous Preparations Directives (Europe)

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EEC/EU - European Economic Community/European Union

EINECS - European Inventory of Existing Commercial Chemical Substances

EPCRA - Emergency Planning And Community Right-To-Know Act FDA - Food and Drug Administration

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IARC - International Agency for Research on Cancer IRIS - Integrated Risk Information System

LD50/LC50 - Lethal Dose/Concentration kill 50%

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TDG - Transportation Dangerous Goods (Canada) TDLo/TCLo - Lowest Published Toxic Dose/Concentration

TLV-TWA - Threshold Limit Value-Time Weighted Average

TLm - Median Tolerance Limit

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

The Canadian Controlled Products Regulations (CPR) (Under the Hazardous Products Act, part of the WHMIS legislation) only apply to WHMIS Controlled (i.e., hazardous) products. Therefore, the CPR and the 3-year update rule specified therein do not apply to WHMIS Non-Controlled products. Although this is true, customarily Petro-Canada reviews and updates Non-Controlled product MSDS if a customer requests such an update. These Non-Controlled product updates are given a lower priority than Controlled products but are handled as soon as practicable. If you would like to verify if the MSDS you have is the most current, or you require any further information, please contact:

Internet: www.petro-canada.ca/msds

Lubricants:

Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564

Ontario & Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax:

Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 1-800-201-6285

For Product Safety Information: (905) 804-4752

Prepared by Product Safety - JDW on 5/9/2006.

Data entry by Product Safety - DSR.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.





Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
® (T)	B-3, D-2B		(a)

Section 1. Ci	hemical 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 Poison Control Centre:
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.	Consult local telephone directory for emergency

			-,	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	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 repeated skin contact to diesel fuels which can lead to dermal irritation and may be associated with an increased risk of skin cancer.					
Other Exposure Limits	Consult local, state, provincial or territory authorities for acceptable exposure limits.					

Section 3. Haz	ards Identification.
Potential Health	Combustible liquid. Exercise caution when handling this material. Contact with this product may cause skir
Effects	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

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. Firs	t Aid Measures	
Eye Contact	Avoid direct contact. Quickly and gently blot or brush away chemical. Immediately eye(s) with lukewarm, gently flowing water for 15 minutes or until the chemical is remeyelid(s) open. Take care not to rinse contaminated water into the unaffected eye of medical attention immediately.	noved, while holding the
Skin Contact	Avoid direct contact. Wear chemical resistant protective clothing if necessary. Quickly away excess chemical. Wash gently and thoroughly with warm water and non-abrasive until chemical is removed. Under running water, remove contaminated clothing, shoes watch bands, belts, etc.). Obtain medical attention immediately. Completely decontaminated goods before reuse or discard.	soap for 15 minutes or and leather goods (e.g.,
Inhalation	Take proper precautions to ensure your own safety before attempting rescue (e.g. wea equipment). If breathing has stopped, trained personnel should begin artificial respiral has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately transport care facility.	tion (AR) or, if the heart
Continued on Next P	ge Internet: www.petro-canada.ca/msds	Available in French

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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 risl 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	s 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 Various Substances Containers may explode in heat of not cut, weld, heat, drill or pressuric container. Vapour explosion indoors, outdoors or in sewers. Substances						
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 (Non-polar/Wäter-immiscible). CAUTION: This product has a moderate flash point above 40°C: Use of water spray when fighting fire may 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 fi 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 monitor nozzles.						
Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately rising sound from venting devices or any discolouration of tank. ALWAYS stay away from the end For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from let fire burn. Wear positive pressure self-contained breathing apparatus (SCBA). Structural protective clothing will only provide limited protection.							

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.

Available in French

Section 7. Han	dling 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).
Storage	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.

DIESEL FUEL Page Number: 3

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. 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	ical 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)	lonicity (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 hydrocarben solvents.			

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

Section 11. Toxico	ological Information						
Routes of Entry	Routes of Entry Skin contact, eye contact, inhalation, and ingestion.						
Acute Lethality	Acute oral toxicity (LD50): 7500 mg/kg (rat).						
Chronic or Other Toxic	ic Effects						
Dermal Route:	This product contains a component (at >= 1%) that can cause skin irritation. It is considered to be a skin irritant. Prolonged or repeated contact may defat an dermatitis. (See Other Considerations)	Therefore, this product nd dry skin, and cause					
Inhalation Route:	Inhalation of this product may cause respiratory tract irritation. Inhalation of th Central Nervous System (CNS) Depression, symptoms of which may include; slurred speech, drowsiness, unconsciousness and in cases of severe over death.	weakness, dizziness,					
Continued on Next Page							
conmised on Next Page	Internet: www.petro-canada.ca/msds	Available in French					

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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.
This product contains a component (at >= 1%) that can cause eye irritation. Therefore, this product is considered to be an eye irritant.
Not available
Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
a: Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
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.
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.
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.
ACGIH A3: animal carcínogen. [Diesel oil] (See Other Considerations)
This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC.
This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.
This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.
This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.
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 Fate	Not available	Persistance/ Bioaccumulation Potential	Not available	
BOD5 and COD	Not available	Products of Biodegradation	Not available	

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. Transpoi	t Informatio	n			
	SEL FUEL, TDG)	3,	UN1202,	Special Provisions for Transport	See Transportation of Dangerous Goods Regulations.

Section 15. Regu	ulatory Information	
Other Regulations	This product is acceptable for use under the provisions of WHMIS-CPR. All components of this for listed on the CEPA-DSL (Domestic Substances List).	mulation are
	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 (EINECS).	Substances
	This product has been classified in accordance with the hazard criteria of the Controlled Products (CPR) and the MSDS contains all of the information required by the CPR.	Regulations
Continued on Next Page	Internet: www.petro-canada.ca/msds Avaid	lable in French

DIESEL FUEL			<u> </u>				Pag	e Number: 5	
	Please contact Produc	ct Safety	for more info	ormation.					
DSD/DPD (Europe)				HCS (U.S.A.)		CLASS: Targ	CLASS: Irritating substance. CLASS: Target organ effects. CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).		
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE			DOT (U.S.A) (Pictograms)		Not evaluated for transport Non évalué pour le transport			
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	2* 2 0 H	NFPA (U	S.A.) Health	2 0	Fire Hazard Reactivity Specific hazard	Rating	Insignificant Slight Moderate High Extreme	

Section 16. Other Information

References

Available upon request.

* Marque de commerce de Petro-Canada - Trademark

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

For Copy of MSDS

Internet: www.petro-canada.ca/msds

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

For Product Safety Information: (905) 804-4752

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

TDLo/TCLo - Lowest Published 10 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

Prepared by Product Safety - JDW on 8/17/2005.

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.





Sulfuric Acid

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Sulfuric Acid

OTHER/GENERIC NAMES:

Battery acid

PRODUCT USE:

Industrial

MANUFACTURER:

General Chemical Corporation

90 East Halsey Road Parsippany, NJ 07054

FOR MORE INFORMATION CALL: 973-515-1840

IN CASE OF EMERGENCY CALL:

800-631-8050

(Monday-Friday, 9:00am-4:30pm)

(24 Hours/Day, 7 Days/Week)

COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME

Sulfuric acid Water

CAS NUMBER

WEIGHT %

7664-93-9 7732-18-5

>51 Balance

Trace impurities and additional material names not listed above may appear in Section 15 of this MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

OSHA Hazard Communication Standard:

This product is considered hazardous under the OSHA Hazard Communication Standard.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Oily, colorless to slightly yellow, clear to turbid liquid. Odorless. Causes severe skin burns. Causes severe eye burns. Causes burns of the mouth, throat, and stomach.

POTENTIAL HEALTH HAZARDS

SKIN: Causes severe burns.

EYES: Liquid contact can cause irritation, corneal burns, and conjunctivitis. May result in severe or permanent injury. May cause blindness.

INHALATION:

Inhalation of fumes or acid mist can cause irritation or corrosive burns to the upper respiratory

system, including the nose, mouth and throat. May irritate the lungs. May cause pulmonary

INGESTION:

Causes burns of the mouth, throat and stomach, May be fatal if swallowed. Hazards are also

applicable to dilute solutions.

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Sulfuric Acid

DELAYED EFFECTS: Erosion of teeth, lesions of the skin, tracheo-bronchitis, mouth inflammation, conjuctivitis and gastritis. IARC and NTP have classified "strong inorganic acid mists containing sulfuric acid" as a known human carcinogen. This classification is for inorganic acid mists only and does not apply to sulfuric acid or sulfuric acid solutions. The basis for the classifications rests on several epidemiology studies which have several deficiencies. These studies did not account for exposure to other substances, some known to be animal or potential human carcinogens, social influences (smoking or alcohol consumption) and included small numbers of subjects. Based on the overall weight of evidence from all human and chronic animal studies, no definitive causal relationship between sulfuric acid mist exposure and respiratory tract cancer has been shown.

Ingredients found on one of the three OSHA designated carcinogen lists are listed below.

INGREDIENT NAME

NTP STATUS

IARC STATUS

OSHA LIST

Sulfuric acid

Known carcinogen sulfuric acid mist

1-Known carcinogen sulfuric acid mist

Not listed

FIRST AID MEASURES

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing while

washing. Get medical attention immediately.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical

attention.

INHALATION: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth.

If breathing is difficult give oxygen. Get medical attention.

INGESTION: If swallowed, do NOT induce vomiting. Give victim two glasses of water. Call a physician

immediately. Never give anything by mouth to an unconscious person.

ADVICE TO PHYSICIAN: Treat symptomatically.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:

Not applicable.

FLASH POINT METHOD:

Not applicable.

AUTOIGNITION TEMPERATURE:

Not applicable.

UPPER FLAME LIMIT (volume % in air):

Not applicable.

LOWER FLAME LIMIT (volume % in air):

Not applicable. Not applicable.

FLAME PROPAGATION RATE (solids): **OSHA FLAMMABILITY CLASS:**

Not flammable.

EXTINGUISHING MEDIA:

Water spray or fog may be used to knock down corrosive vapor cloud. Water may be applied to the sides of the containers exposed to flames provided the water does not come in contact with the tank contents.

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Sulfuric Acid

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flammable and potentially explosive hydrogen gas can be generated inside metal drums and storage tanks. Concentrated sulfuric acid can ignite combustible materials on contact.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:

Do not use solid water streams near ruptured tanks or spills of sulfuric acid. Acid reacts violently with water and can spatter acid onto personnel. Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (See section 8 for recommended personal protective equipment.)

Dilute small spills or leaks cautiously with plenty of water. Neutralize residue with sodium bicarbonate or other suitable neutralizing agent. When using carbonates for neutralization, adequate precautions should be taken to minimize hazards from carbon dioxide gas generation. No smoking in spill area. Major spills must be handled by a predetermined plan. Attempt to keep out of sewers.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (See section 8 for recommended personal protective equipment.)

Avoid contact with skin, eyes and clothing. Avoid breathing mist. Use appropriate personnel protective equipment. Do not add water to acid. When diluting, always add acid to water cautiously and with agitation. Use with adequate ventilation.

STORAGE RECOMMENDATIONS:

Protect from physical damage. Store in a cool, well-ventilated area away from combustibles and reactive chemicals. Keep out of sun and away from heat. Keep containers upright. No smoking in storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Sufficient to reduce vapor and acid mists to permissible levels. Packaging and unloading areas and open processing equipment may require mechanical exhaust systems. Corrosion-proof construction recommended. Closed ventilation systems (e.g. vapor hoods) are frequently used in the electronics industry.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION:

As a minimum, wear acid-resistant, preferably rubber, gloves and apron. Acid resistant boots, trousers and jacket may be used for increased protection.

EYE PROTECTION:

Wear chemical safety goggles. Add a full faceshield for pouring liquids. Do not wear

contact lenses.

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Sulfuric Acid

RESPIRATORY

Generally, none required. If misting conditions prevail, wear a NIOSH-approved

PROTECTION:

acid-mist respirator.

ADDITIONAL

Provide eyewash stations and quick-drench shower facilities in or near areas of use

RECOMMENDATIONS: or handling.

EXPOSURE GUIDELINES

INGREDIENT NAME

ACGIH TLV

OSHA PEL

OTHER LIMIT

Sulfuric acid

1 mg/m³ – TWA 3 mg/m³ – STEL

 $1 \text{ mg/m}^3 - \text{TWA}$

15 mg/m³ - IDLH

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS:

None.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Colorless to light yellow liquid

PHYSICAL STATE:

Liquid

MOLECULAR WEIGHT:

98.08 (H2SO4)

CHEMICAL FORMULA:

H₂SO₄ (various concentrations) in water

ODOR: SPECIFIC GRAVITY (water = 1.0): Odorless

1.842

SOLUBILITY IN WATER (weight %):

100%

pH:

0.9 (1% solution)

BOILING POINT:

~310C (94%)

MELTING POINT:

~ -27C (94%)

VAPOR PRESSURE:

<0.001 mm Hg @ 20C

VAPOR DENSITY (air = 1.0):

Not applicable

EVAPORATION RATE:

Not applicable

COMPARED TO: Not applicable

% VOLATILES:

Not applicable

FLASH POINT:

Not applicable

(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID):

Normally stable. Avoid temperatures greater than 300C: yields sulfur trioxide gas, which is toxic, corrosive, and an oxidizer.

INCOMPATIBILITIES:

Nitro compounds, carbides, dienes, alcohols (when heated): causes explosions.

Oxidizing agents, such as chlorates and permanganates: causes fires and possible explosions.

Allyl compounds and aldehydes: undergoes polymerization, possibly violent.

Alkalies, amines, water, hydrated salts, carboxylic acid anhydrides, nitriles, olefinic organics, glycols, aqueous acids: causes strong exothermic reactions.

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¹ = Limit established by General Chemical Corporation.

² = Workplace Environmental Exposure Level (AIHA).

³ = Biological Exposure Index (ACGIH).



Sulfuric Acid

Carbonates, cyanides, sulfides, sulfites, metals such as copper: yields toxic gases.

HAZARDOUS DECOMPOSITION PRODUCTS:

Sulfur trioxide gas.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS:

 LD_{50} (oral-rat): 2140 mg/kg LC_{50} (inhl-rat): 510 mg/m 3 /2 hr LC_{50} (inhl-mouse): 320 mg/m 3 /2 hr

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

IARC and NTP have classified "strong inorganic acid mists containing sulfuric acid" as known human carcinogens. The state of California has also listed "strong inorganic acid mists containing sulfuric acid" on the Proposition 65 list as a cancer causing agent. No definitive causal relationship between sulfuric acid mist exposure and respiratory cancer has been shown.

OTHER DATA:

None.

12. ECOLOGICAL INFORMATION

24.5 ppm/24 hr./bluegill/lethal/fresh water

42.5 ppm/48 hr./prawn/LC₅₀/salt water

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Yes

If yes, the RCRA ID number is: D002

OTHER DISPOSAL CONSIDERATIONS:

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14.TRANSPORT INFORMATION

US DOT HAZARD CLASS:

8. PG II

US DOT ID NUMBER: PROPER SHIPPING NAME:

UN1830 Sulfuric acid

MSDS Number: GC-2000

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