

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USES

Product Name	GDL-100 Garage Door Lubricant	CI#	Not applicable.
Synonyms	Not available.	DSL	Not available.
Chemical Name	Not applicable.	CAS#	Not applicable.
Chemical Formula	Chemical mixture.	Code	0528-01-024/0528-01-024U
Chemical Family	Petroleum hydrocarbon.	Molecular Weight	Not applicable.
Supplier	DEK Canada Inc. 1928, St-Regis Blvd., Dorval, Quebec H9P 1H6 PHONE: (514) 685-5800		
Material Uses	Anti-wear and extreme pressure lubricant and penetrant.		

SECTION 2 – HAZARDOUS INGREDIENTS

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀
1) Zinc C1-C14 alkyldithiophosphate	68649-42-3	5-15	ORAL (LD50) mg/kg: Acute: 2000 (Rat). Not available.
2) Paraffinic oil	64742-52-5	10-30	Not available.
3) Petroleum hydrocarbon	64742-53-6	10-30	Not available.
4) Petroleum distillate	64742-88-7	10-30	VAPOR (LC50) ppm: Acute: 1400 (Rat) (4 hour(s)).
5) Acetone	67-64-1	1-5	ORAL (LD50) mg/kg: Acute: 9750 (Rat). DERMAL (LD50) mg/kg: Acute: 20000 (Rabbit). VAPOR (LC50) ppm: Acute: 16000 (Rat) (4 hour (s)).
6) D'Limonene	5989-27-5	1-5	ORAL (LD50) : Acute: 4400 mg/kg [Rat].
7) Liquefied petroleum gas	68476-85-7	10-30	Not available.

SECTION 3 – PHYSICAL DATA

Physical State and Appearance	Liquid (Aerosol Concentrate).
pH (1% Soln/Water)	Not applicable.
Odor Threshold	Not available.
Volatility	Not available.
Evaporation Rate	Not available.
Melting Point	Not available.
Boiling Point	56°C (133°F) based on data for: Acetone.
Density	0.870 – 0.900 @ 20°C (68°F) (Water = 1)
Vapor Density	Not available.
Vapor Pressure	9.75 mm of Hg (@20°C) based on data for: Petroleum distillate.
LogK_{ow}	Not available.
Ionicity (Surface Active Agent)	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.
Conditions of Instability	No additional remark.
Dispersion Properties	Is not dispersed in water.
Solubility	Insoluble in water.

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SECTION 4 – FIRE AND EXPLOSION DATA

The Product is:	Extremely Flammable Aerosol
Auto-ignition Temperature	Not available.
Products of Combustion	These products are carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...) and other irritating gases.
Flash Points	CLOSED CUP: (Tagliabue.) –17.8°C (0°F) (Acetone).
Flammable Limits	LOWER: 1.1% UPPER: 12.6%
Extinguishing Media	Extremely flammable aerosol, liquid is insoluble in water. SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water fog. LARGE FIRE: Use water fog. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Avoid spreading burning liquid with water used to cool containers. Self-contained respiratory protection should be provided for firefighters.
Flammability	The flammability of an aerosol by WHMIS definition is determined by its flame-Extension of this product is greater than 45 cm. FIRE CODE: Level 3 Aerosol (as Per NFPA 30B). Do not use in the presence of open flame or spark. Do not place in hot water or near radiators, stoves or other sources of heat.
Risks of Explosion	Risks of explosion of the product in presence of mechanical impact: Do NOT subject aerosol cans to impact. Risks of explosion of the product in presence of static discharge: Vapours of this product may form a flammable/explosive mixture with air in enclosed areas when vapours present are between the lower (1.1%) and upper (12.6%) flammable limits and come into contact with open flames, sparks or static discharge. Do NOT expose aerosol containers to open flames, heat or ignition sources. Container may explode if heated.

SECTION 5 - REACTIVITY

Stability	The product is stable.
Hazardous Decomposition Products	These products are carbon oxides (CO,CO ₂), sulfur oxides (SO ₂ , SO ₃ ...) and other irritating gases.
Degradability	Not available.
Products of Degradation	Not available.
Corrosivity	Not considered to be corrosive for metals and glass according to our database.
Reactivity	Avoid contact with strong oxidizing agents, strong acids and strong alkalies. Keep away from heat, sparks, open flame and all possible ignition sources.
Instability Temperature	Not available.
Conditions of Instability	No additional remark.

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SECTION 6 – TOXICOLOGICAL PROPERTIES

Routes of Entry	Ingestion. Inhalation. Skin contact Eye contact.
TLV	Paraffinic oil TWA: 5 (mg/m ³) Petroleum hydrocarbon TWA: 5 (mg/m ³) Petroleum distillate TWA: 100 (ppm) Acetone TWA: 750 (ppm) Liquefied petroleum gas TWA: 1000 CEIL: 1250 (ppm) TWA: 1800 CEIL: 2250 (mg/m ³) Consult local authorities for acceptable exposure limits.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 9750 mg/kg [Rat] (Acetone). Acute oral toxicity (LD50): 4400 mg/kg [Rat] (D-Limonene). Acute oral toxicity (LD50): 2000 mg/kg (Rat) (Zinc C1-C14 alkyldithiophosphate). Acute dermal toxicity (LD50): > 5000 mg/kg (Rabbit) (Acetone). Acute toxicity of the vapor (LC50): 16000 ppm [Rat] (Acetone). Acute toxicity of the vapor (LC50): 1400 ppm (Rat) (Petroleum distillate).
Chronic Effects on Humans	Prolonged or repeated skin contact may lead to dermatitis.
Acute Effects on Humans	EYE CONTACT: May cause irritation, redness and tearing. SKIN CONTACT: May cause irritation, defatting, drying and cracking of skin. INHALATION: Vapours may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapours may cause Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.
Synergetic Products (Toxicologically)	Not available.
Irritation/Corrosivity	See acute effects on humans.
Sensitization	Not available.
Carcinogenic Effects	Not available.
Toxic Effects on Reproduction	Not available.
Teratogenic Effects	Not available.
Mutagenic Effects	Not available.

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SECTION 7 – PREVENTIVE MEASURES

Small Spill and Leak	Ventilate area and eliminate all sources of ignition. Keep away from heat. Absorb with an inert DRY material and place in an appropriate waste disposal container.
Personal Protective Equipment	Recommended safety glasses and chemical resistant gloves.
Large Spill and Leak	Not applicable for aerosol containers.
Protective Clothing	Not applicable for aerosol containers.
Engineering Controls	Use under well-ventilated conditions.
Precautions	Contents under pressure. Container may explode if heated. Direct inhalation of spray may be harmful. Keep out of reach of children.
Storage	Store in a cool , dry place. Do not place in hot water or near radiators, stoves or other sources of heat. Do not puncture or incinerate container or store at temperatures over 50°C or in direct sunlight.
Handling	Do not use in the presence of open flame, sparks or ignition sources. Keep away from heat. Avoid breathing vapours or spray mists. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities. Do not dispose in sewers. When container is empty, press button to release all pressure then dispose of in garbage can.
Special Shipping Information	None.

SECTION 8 – FIRST AID

Eye Contact	Flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. Consult a physician.
Skin Contact	Wash thoroughly with soap and water. If irritation persists, get medical attention. Remove contaminated clothing and wash before reuse.
Hazardous Skin Contact	No additional information.
Slight inhalation	Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.
Hazardous Inhalation	No additional information.
Slight Ingestion	If swallowed, call physician of poison control centre immediately. DO NOT induce vomiting. Rinse mouth with water. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal.
Hazardous Ingestion	No additional information.

SECTION 9 – MSDS PREPARATION

References	Not available.
No additional remark.	
Validated by DEK Canada Inc. on March 1st, 2011	Verified by DEK Canada Inc. Printed March 1st, 2011
Emergency Phone: Please contact the local authorities.	

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CLASSIFICATION

TDG Road/ Rail	CONSUMER COMMODITY. Not applicable.
WHMIS	WHMIS CLASS A: Compressed gas. WHMIS CLASS B-5: Flammable aerosol. WHMIS CLASS D-2B Material causing other toxic effects (TOXIC).
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