

Material Safety Data Sheet

WHMIS 	Protective Clothing 	TDG Road / Rail
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Section 1. Product Identification and Uses

Product Name	Silicone-Free Dry Lubricant Spray	CI#	Not applicable.
Synonyms	Not available.	DSL	Not available.
Chemical Name	Not applicable.	CAS #	Not applicable.
Chemical Formula	Chemical mixture.	Code	1707-01-004
Chemical Family	Aliphatic hydrocarbon/ketone/alcohol mixture.	Molecular Weight	Not applicable.
Supplier	Dover Finishing Products Inc. 3245 J.B. Deschamps Blvd. H8T 3E4 PHONE: (514) 420-6030	Manufacturer	Manufactured for: Dover Finishing Products Inc.
Material Uses	Dry lubricant.		



Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀
1) Normal heptane	142-82-5	30-60	ORAL (LD50) mg/kg: Acute: 15000 (Rat). ORAL (LD50) mg/kg: Acute: 9750 (Rat). VAPOR (LC50) ppm : Acute: 16000 (Rat) (4 hour(s)). 20000 (Rabbit) (4 hour(s)). ORAL (LD50) mg/kg: Acute: 3600 (Mouse). 5045 (Rat). VAPOR (LC50) ppm : Acute: 22600 (Rat) (4 hour(s)). Not available.
2) Acetone	67-64-1	30-60	
3) Isopropyl alcohol	67-63-0	1-5	
4) Carbon dioxide	124-38-9	3-7	

Section 3. Physical Data

Physical State and Appearance	Liquid (Aerosol Concentrate).	Odor	Characteristic.
pH (1% Soln/Water)	Not available.	Taste	Not available.
Odor Threshold	50 ppm based on data for: Isopropyl alcohol. Weighted average: 49.1 ppm	Color	White.
Volatility	Not available.		
Evaporation Rate	0.75 [Butyl acetate.]		
Melting Point	Not available.		
Boiling Point	Initial boiling point 56°C (132.8°F).		
Density	0.737 - 0.775 (Water = 1)		
Vapor Density	Greater than 1.		
Vapor Pressure	Weighted average: 37.56 mm of Hg (@ 20°C)		
LogK_{ow}	Not available.		
Ionicity (Surface Active Agent)	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Conditions of Instability	Not available.		

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Dispersion Properties	See solubility in water.
Solubility	Soluble in water.

Section 4. Fire and Explosion Data

The Product is:	Extremely Flammable Aerosol.
Auto-ignition Temperature	215°C (419°F) based on data for: Normal heptane.
Products of Combustion	These products are carbon oxides (CO, CO ₂) and other irritating gases.
Flash Points	CLOSED CUP: (TAG) -17.8°C (0.0°F) (Acetone).
Flammable Limits	LOWER: 1.1% UPPER: 12.6%
Extinguishing Media	SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Self-contained respiratory protection should be provided for firefighters.
Flammability	The flammability of an aerosol by WHMIS definition is determined by its flame-extension or its flashback. The flame-extension of this product is greater than 45 cm. Canadian NFC, Level 3 Aerosol. Do not use in the presence of open flame or spark. Do not place in hot water or near radiator, stove or other sources of heat.
Risks of Explosion	Risk of explosion of the product in presence of mechanical impact: Do not subject aerosol cans to impact. Risk of explosion of the product in the presence of static discharge: Aerosol spray may be sensitive to static discharge due to flammable concentrate. 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) and other irritating gases.
Degradability	Not available.
Products of Degradation	Not available. Not available.
Corrosivity	Not considered to be corrosive for metals and glass according to our database.
Reactivity	Avoid contact with strong acids, strong alkalis and strong oxidizing agents. Keep away from heat, sparks, open flame and all possible ignition sources.
Instability Temperature	Not available.
Conditions of Instability	Not available.



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Section 6. Toxicological Properties

Routes of Entry	Ingestion. Inhalation. Skin contact. Eye contact.
TLV	<p>Normal heptane TWA: 400 CEIL: 500 (ppm) TWA: 1600 CEIL: 2000 (mg/m³)</p> <p>Acetone TWA: 750 (ppm)</p> <p>Isopropyl alcohol TWA: 400 CEIL: 500 (ppm) TWA: 980 CEIL: 1225 (mg/m³)</p> <p>Carbon dioxide TWA: 5000 (ppm)</p> <p>Consult local authorities for acceptable exposure limits.</p>
Toxicity to Animals	<p>WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.</p> <p>Acute oral toxicity (LD50): 15000 mg/kg [Rat] (Normal heptane). Acute oral toxicity (LD50): 3600 mg/kg (Mouse) (Isopropyl alcohol). Acute oral toxicity (LD50): 9750 mg/kg [Rat] (Acetone). Acute dermal toxicity (LD50): 20000 mg/kg [Rabbit]. (Acetone). Acute toxicity of the vapor (LC50): > 5000 ppm (Rat) (Acetone).</p>
Chronic Effects on Humans	Prolonged or repeated skin contact may lead to dermatitis.
Acute Effects on Humans	<p>EYE CONTACT: May cause irritation, conjunctivitis, corneal burns and possible corneal damage.</p> <p>SKIN CONTACT: May cause irritation, defatting, drying and cracking of skin.</p> <p>INHALATION: Vapours may be irritating to the eyes, nose and throat and respiratory tract. Excessive inhalation of vapours may cause Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.</p> <p>INGESTION: May cause irritation and a burning sensation of the mouth and throat, abdominal pain, Central Nervous System effects (see inhalation), nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.</p> <p>Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.</p>
Synergetic Products (Toxicologically)	Not available.
Irritation/Corrosivity	See acute effects on humans.
Sensitization	Not available.
Carcinogenic Effects	The ingredients of this product have not been listed as carcinogens by the National Toxicology Program (NTP).
Toxic Effects on Reproduction	Not available.
Teratogenic Effects	Not available.
Mutagenic Effects	Not available.

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	Recommend safety glasses and chemical resistant gloves. <div style="float: right; border: 1px solid black; padding: 5px; text-align: center;">  </div>
Large Spill and Leak	Not applicable for aerosol containers.

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Protective Clothing	Not applicable for aerosol containers.
Engineering Controls	Use under well-ventilated conditions.
Precautions	Contents under pressure. Container may explode if heated. 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 or spark. Keep away from heat. Vapour harmful. 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 running water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, consult physician.
Skin Contact	Wash thoroughly with soap and water. If irritation persists, consult physician. 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. Get immediate medical attention.
Hazardous Inhalation	No additional information.
Slight Ingestion	If swallowed, call physician or 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 Regulatory Affairs Dept. : 2009-10-26	Verified by Regulatory Affairs Dept..



Emergency Phone: (905) 677-1948

Responsible Name/
Telephone No.


Classification

DRY LUBE SPRAY

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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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