MATERIAL SAFETY DATA SHEET

SECTION 1 -PRODUCT IDENTIFICATION AND USES

Product Name	CLEAN & LUBE (CH100)	CI#	Not applicable
Synonyms	Not available.		Not applicable.
Chemical Name	Not applicable.	_ 	Not applicable.
Chemical Formula	Chemical mixture.	Code	0528-01-007
Chemical Family	Petroleum hydrocarbon.	Molecular Weight	
Supplier	DEK Canada Inc.		Manufactured for:
	1928, St-Regis Blvd., Dorval, Quebec		DEK Canada Inc.
	H9P 1H6 PHONE: 514-685-5800		
Material Uses	Cleans and lubricates all electrical contacts.		

SECTION 2 - HAZARDOUS INGREDIENTS

Name	CAS#	% by Weight	LC ₅₀ /LD ₅₀
Petroleum distillate	64742-48-9	10-30	Not available.
2) Light Petroleum Naphtha	64742-49-0	30-60	Not available.
3) Ethanol	64-17-5	10-30	ORAL (LD50): Acute: 7060 mg/kg [Rat].
			3450 mg/kg [Mouse]. 6300 mg/kg[Rabbit].
			VAPOR (LC50): Acute: 31623 ppm 4 hour(s)
			[Rat].
4) Isopropanol	67-63-0	5-10	ORAL (LD50): Acute: 3600 mg/kg [Mouse].
			5045 mg/kg [Rat]. VAPOR (LC50): Acute:
			16000 ppm 4 hour(s) [Rat].
5) Carbon dioxide	124-38-9	1-5	Not available.

SECTION 3 -PHYSICAL DATA

Physical State and	Liquid (Aerosol Concentrate).	Odor	Pleasant.
Appearance	, and the desire.		Not available.
pH (1% Soln/Water)	NI (P III		Clear, colourless
Odor Threshold	Not available.		,
Volatility	Not available.		
Evaporation Rate	Not available.		
Melting Point	Not available.		
Boiling Point	The lowest known value is 64°C (147.2°F) (Light Petroleum Naphtha).		
Density	0.7182 @ 20°C (68°F) (Water=1)		
Vapor Density	Greater than 1 (Air=1)		
Vapor Pressure	Not available.		
LogK _{ow}	Not available.		
Ionicity (Surface Active	Not available.		
Agent)			
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Conditions of Instability	Heat, open flames, static discharge or any other source of ignition.		
Dispersion Properties	Is not dispersed in water.		
Solubility	Insoluble in water.		

SECTION 4 -FIRE AND EXPLOSION DATA

The Product is:	Extremely Flammable Aerosol	
Auto-ignition	The lowest known value is 257°C (494.6°F) (Light Petroleum Naphtha).	
Temperature	(10 no 1) (1-g.m. calculation).	
Products of Combustion	n These products are carbon monoxide, carbon dioxide, silicone dioxide, traces	
	of formaldehyde and other irritating gases.	
Flash Points	The lowest known value is CLOSED CUP: Less than –18°C (0°F) (Tagliabue).	
	(Light Petroleum Naphtha).	
Flammable Limits	Lower: 0.6%	
	Upper: 19%	
Extinguishing Media	SMALL FIRE: Use DRY chemicals, carbon dioxide or foam.	
	LARGE FIRE: Use water spray or fog.	
	Cool containing vessels with water spray in order to prevent pressure build-up,	
	auto-ignition 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 or flashback 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 radiators, stoves or other sources of heat.	
	Vapour may travel a considerable distance to a source of ignition and flash-	
5	back.	
Risks of Explosion	Risk of explosion of the product in presence of mechanical impact: Do not sub-	
	ject aerosol cans to impact.	
	Risk of explosion of the product in the presence of static discharge: Vapours	
	of this product may form a flammable/explosive mixture with air in enclosed	
	area when vapours present are between the lower (0.6%) and upper (19%)	
	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.	
	Containor may explode il fledica.	

SECTION 5 -REACTIVITY

Stability	The product is stable.	
Hazardous Decompo-	These products are carbon monoxide, carbon dioxide, silicone dioxide, traces of	
sition Products	formaldehyde 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.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, open flames, static discharge or any other source of ignition.	

SECTION 6 –TOXICOLOGICAL PROPERTIES

Routes of Entry	Ingestion. Inhalation. Skin contact. Eye contact.		
TLV	Petroleum distillate		
	TWA: 300 (ppm)		
	Light Petroleum Naphtha		
	TWA: 100 (ppm)		
	Ethanol		
	TWA: 1000 (ppm) from ACGIH		
	Isopropanol		
	TWA: 400 CEIL: 500 (ppm) from ACGIH [1993]		
	TWA: 980 CEIL: 1225 (mg/m ³)		
	Carbon dioxide		
	TWA: 5000 (ppm)		
	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): 3600 mg/kg [Mouse] (Isoproanol).		
	Acute oral toxicity (LD50): 3450 mg/kg [Mouse] (Ethanol).		
	Acute toxicity of the vapour (LC50): .>5000 ppm [Rat] (Isopropanol).		
	Acute toxicity of the vapour (LC50): >5000 ppm [Rat] (Ethanol).		
Chronic Effects on	Prolonged or repeated skin contact may lead to dermatitis.		
Humans			
Acute Effects on Humans	,		
	SKIN CONTACT: May cause irritation, defatting, drying and cracking of skin.		
	INHALATION: Vapours may be irritating to the nose, throat and respiratory tract.		
	Excessive inhalation of vapours may cause Central Nervous System effects		
	including dizziness, weakness, fatigue, nausea, headache and possible uncon-		
	sciousness.		
	INGESTION: May cause a burning sensation of the mouth and throat, abdo-		
	minal pain and Central Nervous System effects (see inhalation). May also cau-		
	se gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of mate-		
	rial into the lungs may cause chemical pneumonitis, which can be fatal.		
	Can be fatal if inhaled or ingested.		
Synergetic Products	Not available.		
(Toxicologically)	One and affects on homeon		
Irritation/Corrosivity	See acute effects on humans.		
Sensitization	Not available.		
Carcinogenic Effects	Not available.		
Toxic Effects on	Not available.		
Reproduction	- N. J. W. L.		
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. It is recommended that safety glasses and chemical resistant gloves be worn to clean up spills.	
Personal Protective	Safety glasses and chemical resistant gloves are recommended.	
Equipment		
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. Extremely flamma-	
	ble. 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 or spark. 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 or running water for at least 15 minutes, lifting upper and lower lids, occasionally. Contact physician.	
Skin Contact	Wash with soap and water. If irritation persists, contact physician. Remove contaminated clothing and wash before reuse.	
Hazardous Skin Contact	No additional information.	
Slight Ingestion	If swallowed, call physician or poison control centre immediately. DO NOT induce vomiting. 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 Car	nada on Feb. 27/09	Verified by DEK Canada Inc.	
-		Printed Feb. 07/12	
Emergency Phone: (905) 677-1948		
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)		

VYHIVIS CLASS D-2B: Material causing other toxic effects (TOXIC)

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