



Material Safety Data Sheet

WHMIS 	Protective Clothing 	TDG Road / Rail
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Section 1. Product Identification and Uses			
Product Name	Key Gleem (Key288)	MS-00066 09/03	CI# Not available.
Synonyms	Not applicable		DSL Not available.
Chemical Name	Not applicable.		CAS # Not applicable.
Chemical Formula	Chemical mixture.		Code 1149-15-129/6
Chemical Family	Various hydrocarbons.		Molecular Weight Not applicable.
Supplier	Keystone Automotive Industries, Inc. 700 East Bonita Avenue, Pomona, California, U.S.A. 91767 PHONE: (909) 624-8041		Manufacturer Manufactured for: Keystone Automotive Industries, Inc.
Material Uses	Glass cleaner.		

Section 2. Hazardous Ingredients			
Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀
1) Ethyleneglycol monobutyl ether	111-76-2	1-5	ORAL (LD50): Acute: 470 mg/kg [Rat]. 300 mg/kg [Rabbit]. VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat]. ORAL (LD50): Acute: 7060 mg/kg [Rat.]. 3450 mg/kg [Mouse]. 6300 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8000 ppm 4 hour(s) [Rat.]. Not available.
2) Ethanol	64-17-5	1-5	
3) Liquefied petroleum gas	68476-85-7	1-5	

Section 3. Physical Data	
Physical State and Appearance	Liquid (Aerosol Concentrate).
pH (1% Soln/Water)	10.75 - 11.00 (100% Solution)
Odor Threshold	Not available.
Volatility	Not available.
Evaporation Rate	Not availble.
Melting Point	Not available.
Boiling Point	The lowest known value is 78.3°C (173°F) (Ethanol). Weighted average: 100.3°C (212.6°F)
Density	0.975 - 1.00 @ 20°C (68°F) (Water = 1)
Vapor Density	Not available.
Vapor Pressure	Not available.
LogK_{ow}	Greater than 1.
Ionicity (Surface Active Agent)	Not available.
Critical Temperature	Not available.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Dispersion Properties	See solubility in water.
Solubility	Easily soluble in water.

Continued on Next Page

WHMIS	Protective Clothing	TDG Road / Rail
		
A D-2B		ORM-D

Section 4. Fire and Explosion Data

The Product is:	Non-flammable Aerosol.
Auto-ignition Temperature	Not applicable.
Products of Combustion	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Extinguishing Media	Cool containing vessels with water spray in order to prevent pressure build-up 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 0 cm. FIRE CODE: Level 1 Aerosol (as per NFPA 30B).
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: Not available. 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	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
Reactivity	Avoid contact with strong oxidizing agents, strong acids and strong alkalies.
Instability Temperature	Not available.
Conditions of Instability	Not available.

Section 6. Toxicological Properties

Routes of Entry	Ingestion. Inhalation. Skin contact. Eye contact.
TLV	<p>Ethanol TWA: 1000 (ppm) from ACGIH</p> <p>Ethylene glycol monobutyl ether TWA: 50 CEIL: 150 (ppm) TWA: 240 CEIL: 720 (mg/m³)</p> <p>Liquefied petroleum gas TWA: 1000 CEIL: 1250 (ppm) TWA: 1800 CEIL: 2250 (mg/m³)</p> <p>Consult local authorities for acceptable exposure limits.</p>

Continued on Next Page

WHMIS	Protective Clothing	TDG Road / Rail
A D-2B		ORM-D

Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3450 mg/kg [Mouse] (Ethanol). Acute oral toxicity (LD50): 300 mg/kg [Rabbit] (Ethylene glycol monobutyl ether). Acute toxicity of the vapor (LC50): 8000 ppm [Rat] (Ethanol). Acute toxicity of the vapor (LC50): 450 ppm [Rat] (Ethylene glycol monobutyl ether).
Chronic Effects on Humans	Prolonged or repeated skin contact may lead to dermatitis.
Acute Effects on Humans	EYE CONTACT: May cause irritation, redness, tearing and possible injury to eye. SKIN CONTACT: May cause skin irritation. INHALATION: Excessive inhalation of the vapours may cause dizziness, weakness, fatigue, nausea and headaches. INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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.

Section 7. Preventive Measures

Small Spill and Leak	Absorb with an inert DRY material and place in an appropriate waste disposal container.
Personal Protective Equipment	Recommend safety glasses.
Large Spill and Leak	Not applicable for aerosol containers.
Protective Clothing	Not applicable for aerosol containers.
Engineering Controls	Use with adequate ventilation.
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	Avoid breathing spray mists. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with 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.



WHMIS	Protective Clothing	TDG Road / Rail
		
A D-2B		ORM-D

Section 8. First Aid

Eye Contact	Flush eyes with plenty of water for 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, consult physician.
Skin Contact	Wash with soap and water. Consult physician, if irritation develops.
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 medical attention.
Hazardous Inhalation	No additional information.
Slight Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth with water. Have conscious person drink 1 to 2 glasses of water. Do not give anything by mouth if victim is unconscious. Get medical attention.
Hazardous Ingestion	No additional information.


Section 9. MSDS Preparation

References	Not available.
No additional remark.	
Validated by Regulatory Affairs Dept. on 9/23/2003.	Verified by Regulatory Affairs Dept..
	Printed 9/23/2003.

Emergency Phone: (905) 677-1948

Responsible Name/ Telephone No.	
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Classification

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

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