

Material Safety Data Sheet

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

Product Name	Better Than Gel Vandalism	CI#	Not applicable.
Synonyms	Not available.	DSL	Not available.
Chemical Name	Not applicable.	CAS #	Not applicable.
Chemical Formula	Not applicable.	Code	11111-X214
Chemical Family	Various hydrocarbons.	Molecular Weight	Not applicable.
Supplier	K-G Packaging Inc. 8001 Keele Street, Concord, Ontario L4K 1Y8 PHONE: (905) 669-9855	Manufacturer	Manufactured for: K-G Packaging Inc.
Material Uses	Vandalism mark remover.		



Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	LC ₅₀ /LD ₅₀
1) Xylene	1330-20-7	5-10	ORAL (LD50): Acute: 4300 mg/kg [Rat]. 6100 mg/kg [Rat]. VAPOR (LC50): Acute: 5000 ppm 4 hour(s) [Rat].
2) Toluene	108-88-3	30-60	ORAL (LD50): Acute: 5000 mg/kg [Rat]. DERMAL (LD50): Acute: 14000 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8000 ppm 4 hour(s) [Rat].
3) Diacetone alcohol	123-42-2	5-10	ORAL (LD50): Acute: 4000 mg/kg [Rat]. 3959 mg/kg [Mouse]. DERMAL (LD50): Acute: 13600 mg/kg [Rabbit].
4) Isopropyl alcohol	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) Liquefied petroleum gas	68476-85-7	10-30	Not available.

Section 3. Physical Data

Physical State and Appearance	Liquid (Aerosol Concentrate).	Odor	Characteristic.
pH (1% Soln/Water)	Not available.	Taste	Not available.
Odor Threshold	The highest known value is 50 ppm (Isopropyl alcohol) Weighted average: 6.31 ppm	Color	White.
Volatility	Not available.		
Evaporation Rate	Not available.		
Melting Point	Not available.		
Boiling Point	The lowest known value is 83°C (181.4°F) (Isopropyl alcohol). Weighted average: 114.29°C (237.7°F)		
Density	0.890 - 0.920 (Water = 1)		
Vapor Density	The highest known value is 4.01 (Air = 1) (Diacetone alcohol). Weighted average: 2.59 (Air = 1)		
Vapor Pressure	Not available.		
LogK_{ow}	Not available.		
Ionicity (Surface Active Agent)	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		

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Conditions of Instability	Not available.
Dispersion Properties	See solubility in water.
Solubility	Slightly soluble in water.

Section 4. Fire and Explosion Data

The Product is:	Extremely Flammable Aerosol
Auto-ignition Temperature	The lowest known value is 399°C (750.2°F) (Isopropyl alcohol).
Products of Combustion	These products are carbon oxides (CO, CO ₂) and other irritating gases.
Flash Points	The lowest known value is CLOSED CUP: 6°C (42.8°F). (Tagliabue.). OPEN CUP: 12.78°C (55°F). (Toluene)
Flammable Limits	LOWER: 1% UPPER: 12%
Extinguishing Media	Extremely flammable aerosol, liquid is slightly soluble in water. SMALL FIRE: Use DRY chemicals, CO ₂ , foam or water spray. LARGE FIRE: Use foam or water 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. 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	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: Vapours of this product may form a flammable/explosive mixture with air in enclosed areas when vapours present are between the lower (1%) and upper (12%) 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	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 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	Inhalation. Ingestion. Skin contact. Eye contact.
TLV	<p>Xylene TWA: 100 CEIL: 150 (ppm) from ACGIH TWA: 435 CEIL: 655 (mg/m³)</p> <p>Toluene TWA: 50 CEIL: 150 (ppm) TWA: 375 CEIL: 560 (mg/m³)</p> <p>Diacetone alcohol TWA: 50 CEIL: 75 (ppm) TWA: 240 CEIL: 360 (mg/m³)</p> <p>Isopropyl alcohol TWA: 400 CEIL: 500 (ppm) from ACGIH [1993] TWA: 980 CEIL: 1225 (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>
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): 4300 mg/kg [Rat]. (Xylene). Acute oral toxicity (LD50): 5000 mg/kg [Rat]. (Toluene). Acute oral toxicity (LD50): 3959 mg/kg [Mouse]. (Diacetone Alcohol). Acute oral toxicity (LD50): 3600 mg/kg [Mouse]. (Isopropyl alcohol). Acute toxicity of the vapor (LC50): 5000 ppm (Rat) (Xylene). Acute toxicity of the vapor (LC50): > 5000 ppm 4 hour(s) [Rat]. (Toluene). Acute toxicity of the vapor (LC50): > 5000 ppm 4 hour(s) [Rat]. (Isopropyl alcohol).</p>
Chronic Effects on Humans	Prolonged or repeated skin contact may lead to dermatitis.
Acute Effects on Humans	<p>EYE CONTACT: May cause moderate irritation, redness and tearing. This product is an eye irritant.</p> <p>SKIN CONTACT: May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.</p> <p>INHALATION: Vapours may 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.</p> <p>INGESTION: May cause gastrointestinal irritation, 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	Not available.
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. It is recommended that safety glasses and chemical resistant gloves be worn to clean up spills.
Personal Protective Equipment	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.
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	Immediately flush eyes with plenty of running water for at least 15 minutes, lifting upper and lower lids, occasionally. If irritation develops or persists, call a doctor.
Skin Contact	Wash thoroughly with soap and water. If irritation develops, call a doctor. 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 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.

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Section 9. MSDS Preparation

References Not available.

No additional remark.

Validated by Regulatory Affairs Dept. on 6/1/2005.

Verified by Regulatory Affairs Dept..

Printed 6/9/2005.

Emergency Phone: (905) 677-1948

Responsible
Name/
Telephone No.

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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