

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name and Codes Crystal Die Lube Item No. 40050 & 40051		Product Synonyms Die Lubricant, Wax Separator	
Product Use Used by dental technicians, dental office and jewelry makers		Product Packages Glass Bottle & Plastic Bottle	
Manufacturer's Name Vacalcom Company Inc			
Street Address 12960 Stonecreek Dr, Ste C			
City Pickerington		State OH	Country USA
Contact Information For General Product Details (Mon - Fri, 9:00 am - 5:00 pm EDT)			
Zip Code 43147		Telephone Number 614-577-1945	Fax Number 614-759-4999
Date MSDS Prepared May 1, 2008			

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number	OSHA PEL	ACGIH TLV
Isopropanol		67-63-0	400 ppm	400 ppm
1,2,3 Propanetriol polymer w/ Methyl Oxirane		25791-96-2	N/E	N/E
Non - Hazardous Ingredients				
Petrolatum		8012-95-1	5 mg/M3	5 mg/M3

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Ingestion	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation
[Emergency Overview]				
Appearance: Clear, no color Odor: Sweet, aromatic smell				
- Contains a flammable liquid - Do not drink liquid. Prevent overexposure to vapor				
- Note: Overexposure to vapor is unlikely in the small quantities recommended for use				
[Potential Health Effects]				
- Inhalation: May cause nervous system depression (fatigue, drowsiness, dizziness), headache or stupor				
- Eyes: Burning, tearing, redness and swelling				
- Ingestion: Nausea				
- Skin: Drying and cracking of skin				

SECTION 4 — FIRST AID MEASURES

Skin Contact	Wash affected skin with soap and water. remove and clean contaminated clothing. Seek attention if irritation persists.
Eye Contact	Flush eyes with large amount of water for at least 15 minutes. Seek attention if irritation persists.
Inhalation	Move subject to fresh air. Give artificial respiration if breathing has stopped. See a physician.
Ingestion	Seek medical attention. If victim is drowsy/unconscious, place on left side with head down. Do not give anything by mouth.

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SECTION 5 — FIRE FIGHTING MEASURES

Flammable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	General Hazards Warning: Flammable	
Means of Extinction: Extinguishing Media: "Alcohol" Foam, CO <sub>2</sub> , Dry Chemical, Water Spray.			
Flashpoint (°C) and Method	12°C (54°F)	Upper Flammable Limit (% by volume)	12.7%
Autoignition Temperature	425°C (797°F)	Lower Flammable Limit (% by volume)	2.0%
Special Fire Fighting Procedures	Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Use water spray to cool containers.		
Unusual Fire and Explosion Hazards	Vapors can travel to a source of ignition and flash back. Material can form explosive vapors with air.		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Personal Precautions: Appropriate protective equipment must be worn for handling spill, see section 8. If exposed to material, see section 4. Environmental Precautions: Warning - Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment	Ground all containers when transferring material.
Storage Requirements	Limit storage of flammable materials to approved areas. Keep properly ventilated. Store bottles away from heat. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed. Periodically clean neck of bottle of build-up (clean inside of cap) to maintain proper seal. Do not smoke when using.
Other Precautions	Avoid storing near Concentrated Nitric & Sulfuric Acids, strong oxidizers, alkalies, halogen compounds.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Specific Engineering Controls (such as ventilation, enclosed process)	Use explosion proof local exhaust ventilation with minimum capture velocity of 100ft/min at point of vapor evolution.
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type	Gloves: Latex Respirator: None required if good ventilation is maintained. Otherwise self contained breathing apparatus (pressure-demand, MSHA/NIOSH - approved or equivalent.) Eye: Chemical resistant goggles Clothing: Chemical resistant apron or other impervious cloth

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor and Appearance	Vapour Pressure
Liquid	Clear with sweet aromatic smell	4100 Pa at 20°C (68°F)
Specific Gravity (H <sub>2</sub> O = 1)	Vapor Density (Air = 1)	
0.9	2 at 20°C (68°F)	
Evaporation Rate (Butyl Acetate = 1)	Boiling Point (°C)	
1.5	82 - 83°C (180 - 181°F)	
pH	Solubility in water	Other
N/E	Insoluble	

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Concentrated Nitric & Sulfuric acids, strong oxidizers, alkalies, halogen compounds.
Reactivity, and under what conditions?	Avoid contacts with ignition sources (e.g. sparks, open flame, heated surfaces)	
Hazardous Decomposition or By-Products	Combustion will produce CO <sub>2</sub> and possibly CO.	
Hazardous Polymerization	Will not occur	

SECTION 11 — TOXICOLOGICAL INFORMATION

LD50 Information	Oral: Low toxicity: LD50 >2000 mg/kg, Rat Dermal: Low toxicity: LD50 >2000mg/kg, Rabbit Inhalation: Low toxicity: LC50 >5000 ppm / 1 hours, Rat
Chronic/Carcinogenicity	None

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SECTION 12 — ECOLOGICAL INFORMATION

Ecological Information	Avoid contamination of waterways. Contact authorities if significant contamination occurs.
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SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal	Spill Clean Up: Eliminate all ignition sources. Evacuate personnel to safe areas. Ventilate the area. Soak up with inert absorbent material (paper towel, sand, silica gel, sawdust). Avoid breathing vapor. Wear MSHA/NIOSH approved respirator. Will make serious slipping/falling hazard. Use coarse sand over spilled area. Contaminated Packaging: Empty containers should be taken for local recycling or waste disposal.
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SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information		
DOT	ORM-D Class 3, regulated status - flammable liquid	WGK
UN	Class 3, Alcohols, flammable, n.o.s.	Other

SECTION 15 — REGULATORY INFORMATION

OSHA	Considered hazardous under OSHA Hazard Communication	WHMIS	"Controlled Product"
SARA 313	Immediate (Acute) Health Hazard	California Prop 65	Contains no known substances known to cause cancer, birth defects, other

SECTION 16 — OTHER INFORMATION

HMS Hazard Rating	1 Health	2 Fire	0 Reactivity	Hazard: 4-Severe; 3-Serious; 2-Moderate; 1-Minimum
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