

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name and Codes ProLine Die Spacer & Die Spacer Thinner Item No. - Multiple		Product Synonyms Die Spacer, Cement Spacer	
Product Use Used by dental technicians and dental offices		Product Packages Glass 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 February, 1 2009	MSDS Prepared By Josh Andrachek	Phone Number 614-577-1945	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number	OSHA PEL	ACGIH TLV
Methyl Ethyl Ketone (Butanone)	> 50	78-93-3	200 ppm	200 ppm
Butyl Acetate	> 10	10-66-67	150 ppm	200 ppm
Non - Hazardous Ingredients				

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	X Skin Contact	X Ingestion	X Eye Contact	X Inhalation	Irritant, Very Flammable
[Emergency Overview]					
Appearance: Assorted colors and clear with no color Odor: Acetate 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 and/or irritation of digestive tract. - 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 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Various Colors/ Clear w/ Acetate Odor	Vapour Pressure (mm/Hg) 70 mmHg @ 20°C (68°F)
Specific Gravity (H ₂ O = 1) Approx. 1	Vapor Density (Air = 1) > 1 at 20°C (68°F)	
Evaporation Rate (Butyl Acetate = 1) > 1	Boiling Point (°C) 80°C (176°F)	
pH N/E	Solubility in water Base somewhat soluble/ Pigment insoluble	Other

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability	X Yes No	If no, under which conditions?
Incompatibility with Other Substances	X Yes No	If yes, which ones? Strong acids, strong oxidizers and strong bases
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 ² and possibly CO.		
Hazardous Polymerization Will not occur		

SECTION 11 — TOXICOLOGICAL INFORMATION

Route(s) of entry	X Skin Contact X Ingestion X Inhalation
Health Hazards	May cause nervous system depression (fatigue, drowsiness, dizziness), headache, nausea, stupor. Burning, tearing, redness and swelling of eyes; drying and cracking of skin.
Chronic/Carcinogenicity	
Signs/Symptoms of Exposure	INHALATION/INGESTION: Solvent vapor or mist can cause headache, nausea, dizziness, incoordination, stupor, irritation of nose, throat, lungs. Irritation of digestive tract. Nervous system depression (fatigue, drowsiness, dizziness); SKIN/EYES: Burning, tearing, redness and swelling of eyes, transient corneal injury, drying and cracking of skin.
Toxicity Information	Oral: LD50 > 3.3g/kg, Rat Dermal: LD50 > 8 ml/kg, Rabbit Inhalation: LC50 > 2000 ppm / 2 hours, Rat

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SECTION 5 — FIRE FIGHTING MEASURES

Flammable	X Yes No	General Hazards Warning: Flammable
Means of Extinction: Extinguishing Media: "Alcohol" Foam, CO ² , Dry Chemical, Water Spray, Sand.		
Flashpoint (°C) -4°C (25°F)	Upper Flammable Limit (% by volume) 11.5%	Lower Flammable Limit (% by volume) 1.0%
Autoignition Temperature 516°C (961°F)	Explosion Data - Sensitivity to Impact	Explosion Data - Sensitivity to Static Discharge
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	Keep properly ventilated. Ground all containers when transferring material. Keep away from open flame of bunsen burner or furnace. Keep containers tightly sealed.
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	STEL: 125 ppm MEK. Containers may be hazardous when empty. Empty containers contain residue. Dispose of properly. Storage Temperature 60°C (140°F) Max

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	X Gloves X Respirator X Eye Footwear X Clothing Other
If checked, please specify type	Gloves: Chemical resistant 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
Work/Hygiene Practices	Eyewash, shower, wash clothing if spilled on. Wash hands with soap and water.

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SECTION 12 — ECOLOGICAL INFORMATION

Ecological Information	The estimated fish chronic toxicity value of Methyl Ethyl Ketone is 200 mg/L. WARNING: Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. Note: Spills on porous surfaces can contaminate ground water.
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SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose in accordance with local regulations.
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SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information	
DOT	Flammable Liquid, n.o.s., UN1993, 3, II, Flammable Liquid

SECTION 15 — REGULATORY INFORMATION

OSHA	Considered hazardous under OSHA Hazard Communication	WHMIS	"Controlled Product"
SARA 311/312	Above de minimus concentrations (Methyl Methacrylate & Methyl Ethyl Ketone)		
SARA 311/312	Regulated components (Methyl Methacrylate (RQ 1000 lbs & Methyl Ethyl Ketone RQ 5000 lbs)		

SECTION 16 — OTHER INFORMATION

HMIS Hazard Rating	2 Health 3 Fire 1 Reactivity	Hazard: 4- Severe; 3- Serious; 2- Moderate; 1- Minimum
	B Personal Protection	

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