

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name and Codes ProLine Model & Die Conditioner & Thinner		Item No. - Multiple		Product Synonyms Gypsum Hardener, Die Protectant	
Product Use Used by dental technicians and dental offices				Product Packages Glass or Metal Bottle	
Manufacturer's Name Vacalco 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
2-Butanone	> 80	78-93-3	200 ppm	200 ppm
Methyl methacrylate	< 1	80-62-6	100 ppm	100 ppm
Non - Hazardous Ingredients				
Resin Polymer (proprietary)				

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry X Skin Contact X Ingestion X Eye Contact X Inhalation Irritant, Very Flammable	
[Emergency Overview] Appearance: Blue tinted liquid Odor: Pungent, sweet 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.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Light Blue w/ Sweet, Pungent Odor	Vapour Pressure (mm/Hg) 80 mm Hg @ 20°C (68°F)
Specific Gravity (H <sub>2</sub> O = 1) 0.95 - 1.0	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 Partially for resin, moderate for thinner	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 Oxides of carbons. May yield acrylic monomers.	
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.
Chemical Carcinogenicity Not listed as a carcinogen by OSHA, NTP or IARC
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.

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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 <sub>2</sub> , Dry Chemical, Water Spray, Sand.	
Flashpoint (°C) -4°C (25°F)	Upper Flammable Limit (% by volume) 11.5%
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 Empty containers contain residue. Dispose of properly.

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 Small quantities do not pose an ecological concern. RCRA Reportable quantity is 100 lbs. 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 Small quantities of dried material may be disposed of in local landfill. Always check 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 313 Above de minimus concentrations (Methyl Methacrylate & Methyl Ethyl Ketone)	
CERCLA Regulated components (Methyl Methacrylate (RQ 1000 lbs & Methyl Ethyl Ketone RQ 5000 lbs)	

SECTION 16 — OTHER INFORMATION

HMIS Hazard Rating 2 Health 3 Fire 0 Reactivity Hazard: 4- Severe; 3- Serious; 2- Moderate; 1- Minimum B Personal Protection
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