

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name and Code N&V Expansion Liquid Item No. 80040		Product Synonyms Phosphite casting investment liquid	
Product Use Used by dental technicians to mix with casting investment		Product Packages Plastic 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 May 1, 2008			

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	%	CAS Number	OSHA PEL	ACGIH TLV
This product contains no hazardous components as defined in the OSHA				
Hazard Communication Statement (29 CFR 1910.1200)				
Non-Hazardous Ingredients				
Colloidal Silica		112926-00-8		
Water		7732-18-5		

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: Liquid, milky white	Odor: None
[Potential Health Effects]	
- Inhalation: N/A	
- Eyes: May cause irritation to surface of eye.	
- Ingestion: This material is not toxic.	
- Skin: Not irritating	

SECTION 4 — FIRST AID MEASURES

Skin Contact	Wash with soap and plenty of water.
Eye Contact	Flush eyes with large amount of water for at least 15 minutes. Seek attention if irritation persists.
Inhalation	N/A
Ingestion	Accidental ingestion of a small amount is not expected to cause significant harm.

Note: In severe cases contact physician and/or poison control center immediately. Have product or label available and follow advice given.

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Product Identifier

SECTION 5 — FIRE FIGHTING MEASURES

Flammable	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	General Hazards Material is not considered flammable or combustible.	
Means of Extinction N/A			
Flashpoint (°C) and Method N/A	Upper Flammable Limit (% by volume) N/A	Lower Flammable Limit (% by volume) N/A	
Autoignition Temperature N/A	Explosion Data - Sensitivity to Impact None	Explosion Data - Sensitivity to Static Discharge	
Special Fire Fighting Procedures Use of respirators is recommended as dust can be harmful.			
Unusual Fire and Explosion Hazards Material may cause flammable hydrogen gas when coming into contact with reactive metals. (e.g. aluminum)			

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Do not allow liquid to dry. Clean up with absorbent towels.
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SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment	No special protection is needed during normal laboratory use.
Storage Requirements	No special requirements exist for storage but it is recommended to store in a dry location.
Other Precautions	Avoid breathing dust that is created while handling if liquid is allowed to dry. May result in lung damage.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Specific Engineering Controls (such as ventilation, enclosed process)	None under normal conditions.
Personal Protective Equipment	<input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye Footwear <input checked="" type="checkbox"/> Clothing Other
If checked, please specify type	
Gloves: Chemical resistant gloves are recommended if prolonged or repeated skin contact is likely	
Respirator: None required if good ventilation is maintained and dust is not created by allowing material to dry out.	
Eye: Safety glasses should be worn as discomfort can be caused by contact with eyes.	
Clothing: Apron or other impervious cloth	

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Product Identifier

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Odorless, milky white in color	Vapour Pressure N/A
Specific Gravity (H ₂ O = 1) 1.24	Vapor Density (Air = 1) N/A	
Evaporation Rate (Butyl Acetate = 1) N/E	Boiling Point (°C) 100°C (212°F)	
pH 8.5	Solubility in water Dispersable in water	Other

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? Hydrofluoric acid
Reactivity, and under what conditions?		
Hazardous Decomposition or By-Products None known		
Hazardous Polymerization Will not occur		

SECTION 11 — TOXICOLOGICAL INFORMATION

LD50 Information N/A
Chronic/Carcinogenicity No known carcinogens

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SECTION 12 — ECOLOGICAL INFORMATION

Ecological Information	No specific studies are available but the material is generally considered chemically inert in the environment.
There are no known adverse effects to water.	

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal	Material is not considered a hazardous waste as defined by RCRA.
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SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information	
DOT Not regulated	WG Other
WTA	

SECTION 15 — REGULATORY INFORMATION

OSHA Not considered hazardous under OSHA Hazard Communication	California Prop 65
SARA 311 Immediate and delayed health.	TSCA All ingredients are listed in the TSCA inventory
SARA 311/312 Reportable Ingredients: None	

SECTION 16 — OTHER INFORMATION

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