

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product 20512 Val-Fuse Repair Liquid				[WHMIS Classification] B2 FLAMMABLE LIQUIDS, D2B TOXIC MATERIAL Alkoxy Silane: The Canadian WHMIS registry number is 1074-001.			
Product Use Dental Lab Processing Agent							
Manufacturer's Name Valplast International Corporation				Supplier's Name N/A			
Street Address 200 Shames Drive				Street Address N/A			
City Westbury			State NY		City N/A		Province N/A
Postal Code 11590		Emergency Telephone 1-800-424-9300		Postal Code N/A		Emergency Telephone N/A	
Date MSDS Prepared 10/1/2013			MSDS Prepared By Valplast Quality & Compliance			Phone Number 516-442-3923	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	ACGIH TLV TWA ppm	ACGIH TLV STEL ppm	OSHA PEL TWA ppm	OSHA PEL STEL ppm
N-BUTYL ALCOHOL	1-5	71-36-3	50	N/A	50☉	N/A
ACETONE	10-30	67-64-1	750	1000	750	1000
ISOPROPYL ALCOHOL	10-30	67-63-0	400	500	400	500
SILICIC ACID (H4SiO4) TETRAETHYLESTER, HOMOPOLYMER	1-5	26352-16-9	10	NE	10	NE
TRADE SECRET COMPONENT	~2.29		5	NE	5	NE
NON-HAZARDOUS						
SILANOL/STPD SILOXANE W/ME SILSQXNS	10-30	68554-67-6	N/A	N/A	N/A	N/A

SECTION 3 — HAZARDS IDENTIFICATION

WHMIS Hazard Symbols: B2 FLAMMABLE LIQUIDS, D2B TOXIC MATERIAL Alkoxy Silane: The Canadian WHMIS registry number is 1074-001.		
Carcinogenicity: Not Classified		
Health Hazards: Slight Yellow Liquid Aromatic Solvent Odor Harmful if swallowed. Harmful if absorbed through the skin. Avoid breathing vapors. Avoid contact with skin and eyes. Causes skin irritation. May cause severe eye irritation. Excessive inhalation may cause headache, dizziness, nausea, and in loosing coordination.	Acute: INGESTION: <ul style="list-style-type: none">• Harmful if swallowed• Causes vomiting, nausea, and diarrhea.• Irritation of the mouth, throat, and stomach. SKIN CONTACT: <ul style="list-style-type: none">• Causes skin irritation• Causes drying of the skin.• Harmful if absorbed through the skin. INHALATION: <ul style="list-style-type: none">• Excessive inhalation causes headache, dizziness, nausea, and in loosing coordination.• Causes moderate respiratory irritation.• Causes irritation of the mouth, nose, and throat.• Harmful in inhaled.• Can cause unconsciousness if inhaled. EYE CONTACT: <ul style="list-style-type: none">• Causes severe eye irritation.• High vapor concentration will cause irritation. MEDICAL CONDITIONS AGGRAVATED: <ul style="list-style-type: none">• Respiratory• Pulmonary disorders.• Dermal ailments.	SUBCHRONIC (TARGET ORGAN) EFFECTS: Dermatitis. Corneal damage. CHRONIC EFFECTS / CARCINOGENICITY: Not Classified
Medical Conditions Generally Aggravated by Exposure: Respiratory, Pulmonary disorders, Dermal ailments.		
Signs and Symptoms of Exposure:		

SECTION 4 — FIRST AID MEASURES

INGESTION:

Do not induce vomiting. Slowly dilute with ½ glasses of water or milk and seek medical attention. Never give any thing by mouth to an unconscious person.

SKIN:

Remove contaminated clothing and launder before reuse. Wash with soap and water. Apply Olive Oil to reduce irritation. Get medical attention if irritation persists.

INHALATION:

If inhaled, remove to fresh air, if not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

EYES:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Note: *Seek medical attention in case of emergency or if condition persists.*

SECTION 5 — FIRE FIGHTING MEASURES

Flammable <div><input type="checkbox"/> Yes</div>	If yes, under which conditions?	
Means of Extinction Carbon dioxide, Dry Chemical, Foam, Water mist		
Flashpoint (° F) and Method 12 <div>© 10</div> PMCC	Upper Flammable Limit (% by volume) 12	Lower Flammable Limit (% by volume) 2.1
Autoignition Temperature (°F) >538 <div>© >1000</div>	Explosion Data — Sensitivity to Impact	Explosion Data — Sensitivity to Static Discharge Sensitivity to static discharge is expected; material has a flash point below 400F
Hazardous Combustion Products N/A		
[NFPA] Extremely flammable, Wear full protective clothing		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Warn other workers of spill. Increase area ventilation.

SECTION 7 — HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing:
Use ground strap. Store upright in a cool place below 30°C (85°F). Keep container closed when not in use. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in well ventilated area. Do not inhale vapors. Danger Extremely flammable. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits
Specific Engineering Controls Exhaust ventilation Showers Eyewash stations Use in a well ventilated area
VENTILATION: Use only in well ventilated area Mechanical ventilation
Special: N/A Other: N/A

<p>Personal Protective Equipment:</p> <p>RESPIRATORY PROTECTION: Use approved NIOSH respiratory protection if TLV exceeded. or if over exposure is likely</p> <p>PROTECTIVE GLOVES: Rubber gloves</p> <p>EYE AND FACE PROTECTION: Safety glasses Monogoggles Face shield</p> <p>OTHER PROTECTIVE EQUIPMENT: Rubber apron Wear eye protection and protective clothing.</p>
<p>Work/Hygienic Practices: N/A</p>

Physical State LIQUID	Odor and Appearance LIGHT YELLOW to Brown, PUNGENT/SOLVENT	Odor Threshold (ppm) 100
Specific Gravity (WATER = 1) 0.8	Vapor Density (air = 1) N/A	Vapor Pressure (mmHg) N/A
Evaporation Rate (BUTYL ACETATE = 1) >1	Boiling Point (° F) 180	Freezing Point (° F) <-30
pH N/A	SOLUBILITY IN ORGANIC SOLVENT: SOLUBLE, AROMATIC SOLVENT	[Solubility in Water] SLOWLY HYDROLYZ
VOC (EPA METH.24) (G/L) 696	ACID/ALKALINITY (MEG/G) 7	DENSITY (KG/M3) 0.855

Chemical Stability <input type="checkbox"/> Yes	If no, under which conditions?
Incompatibility with Other Substances <input type="checkbox"/> Yes	If yes, which ones? Contact with oxidizing agents.

Keep away from heat, sparks and flame.
Avoid any source of ignition.

- Carbon monoxide.
- Carbon dioxide.
- Silicon dioxide.
- Oxides of nitrogen

SECTION 11 — TOXICOLOGICAL INFORMATION

TOLUENE		
ACUTE ORAL LD50 (MS/KG):	5000 (RAT)	
ACUTE DERMAL LD50 (MG/KG):	14,000 (RBT)	
ACUTE INHALATION LC50 (MG/L):	5320 PPM/8HR (RAT)	
OTHER:		
Tested for acute oral, dermal and inhalation.		
AMES TEST:		
TRADE SECRET COMPONENT		
ACUTE ORAL LD50 (MS/KG):	N/A	
ACUTE DERMAL LD50 (MG/KG):	N/A	
ACUTE INHALATION LC50 (MG/L):	N/A	
OTHER:		
None		
AMES TEST:		

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:	No data at this time
CHEMICAL FATE INFORMATION:	No data at this time

SECTION 13 — DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:	
Disposal should be made in accordance with federal, state and local regulations.	

SECTION 14 — TRANSPORT INFORMATION

DOT SHIPPING NAME:	FLAMMABLE LIQUID NOS. (CONTAINS ACETONE)
DOT HAZARD CLASS:	3
DOT LABEL(S):	FLAMMABLE LIQUID
UN/NA NUMBER:	UN1993
PLACARDS:	FLAMMABLE LIQUID
IATA:	
FLAMMABLE LIQUID N.O.S. (ACETONE), 3, UN1993, II, RQ=5000 LB (ACETONE), RQ=1000 LB (TOLUENE).	
MO IMDG-code:	FLAMMABLE 3.2
EUROPEAN CLASS:	
RID (OCTI):	3
ADR (ECE):	3,2301,1A
RAR (IATA):	3

SECTION 15 — REGULATORY INFORMATION

SARA SECTION 302:
None Found

SARA (311,312) HAZARD CLASS:
ACUTE HEALTH HAZARD
CHRONIC HEALTH HAZARD
FIRE HAZARD

SARA (313) CHEMICALS:
THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) LISTED BELOW WHICH IS (ARE) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

ACETONE
67-64-1

CPSC CLASSIFICATION:
N/A

WHMIS HAZARD CLASS:
B2 FLAMMABLE LIQUIDS
D2B TOXIC MATERIAL

WHMIS TRADE SECRET:
The hazardous trade secret component in section 2 is an alkoxy silane. The Canadian WHMIS registry number is 1074-001.

EXPORT:
SCHDLE B/HTSUS:
ECCN:
HAZARD RATING SYSTEMS

3910.00.00003
1C96G

HMIS
NFPA

FLAMMABILITY 2, REACTIVITY 1, HEALTH 4
FLAMMABILITY 2, REACTIVITY 1, HEALTH 4

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS CALIFORNIA PROPOSITION 65 CHEMICALS WHICH ARE LISTED BELOW:
NONE

SECTION 16 — OTHER INFORMATION

This product or its components are on the European inventory of existing commercial chemicals (EINECS)

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.....

This product or its components are on the Australian inventory (ACOIN).....

C= ceiling limits
EST = estimated
NA = not applicable
NE = none established
ND = none determined
By-product = reaction by-
Product, TSCA inventory
Status not required under
40 CFR part 720.30 (h-2)
STEL = short term exposure
Limit

NE = negligible
NF = none found
UNKN = unknown
REC = recommended
V = recommend by vendor
SKN = skin
TS = Trade Secret
R = Recommended
MST = mist
NT = not tested

California Proposition 65

California Proposition 65

Additional technical guidance for NYS bulk storage

- *This product contains flammable/combustible solvents*
- Materials of construction/compatibility

Stainless steel or glass lined steel piping and storage tanks (at ambient temperature) are the normal materials of construction for this product. Any other materials such as reinforce fiberglass, plastic and etc. Must be tested for compatibility before use.

Condition for safe storage:

Bulk storage design factors to consider are venting, diking, separation distances between tanks and other structures. Storage requirements should be determined through consultation with qualified design and fire protection engineers and for insurance carriers. Technical guidance may be found in pamphlet NFPA 30 or factory mutual handbook of industrial loss prevention. Recommended tank design: American Society of Mechanical Engineers (ASME) code, section viii, 50 psig minimum pressure and full vacuum. Relief valves: Flammable and combustible liquids code, NFPA no. 30 and 29 CFR 1910.106.

Storage equipment:

Corrosion protection, leak detection, spill and overfill protection, installation and maintenance information may be found in EPA final rule: 40 CFR part 280 underground storage tanks. New York State regulates storage of this material in 6 NYCRR parts 595, 596, 597.

Inspection and maintenance:

API publication, guide for inspection of refinery equipment, is a source for inspection and maintenance information. (American Petroleum Institute, 1220 L Street, Northwest, Washington, D.C. 20005)

Safety precautions, warnings and procedures for handling and unloading bulk deliveries:

Only qualified, fully trained and experienced persons should sample, connect, load, unload, or disconnect a tank car, portable tank or tank truck. When loading or unloading material in bulk, all DOT (Department of Transportation) regulations found in 49 CFR 172-178 must be followed when applicable. This will include grounding, braking, attendance, etc. The contents of the material to be unloaded should be verified before any transfer is made.

Prior to unloading into a storage tank, a qualified person must check the storage tank level to be sure that the amount of material to be received will not overflow the storage tank. The proper unloading connection should be vented to a removal, recovery or conservation system.

Spill and emergency response:

Release reporting and corrective actions are listed in 40 CFR part 280 underground storage tanks and 6 NYCRR part 595.

For Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 CCN215110

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

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