

MATERIAL SAFETY DATA SHEET

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Vendor Update: 8/20/2009
Date Prepared: 8/21/2009
MSDS Number: VW1ALM ; VW1T ; VW1W ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: VINYL WELD
HMIS Ratings:
 Health: Slight(1)
 Flammability: Serious(3)
NFPA Ratings:

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
PVC RESIN	9002-86-2	10 - 20	NE				
Notes							
TETRAHYDROFURAN	109-99-9	25 - 60	200 PPM	200 PPM			
Notes							
METHYL ETHYL KETONE	78-93-3	10 - 60	200 PPM	200 PPM			
Notes							
CYCLOHEXANONE	108-94-1	5 - 15	25 PPM	50 PPM			
Notes							
ACETONE	67-64-1	5 - 15	500 PPM	1000 PPM			
Notes							
Other:	AMOUNTS SPECIFIED ARE TYPICAL. REMAINING COMPONENTS ARE PROPRIETARY, NONHAZARDOUS AND/OR PRESENT AT AMOUNTS. BELOW REPORTABLE LIMITS.						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: VAPORS OR DIRECT CONTACT MAY CAUSE IRRITATION
Skin: PROLONGED CONTACT WITH PRODUCT MAY IRRITATE THE SKIN
Ingestion: MAY CAUSE NAUSEA, VOMITING, AND POSSIBLE DAMAGE TO MUCOUS MEMBRANES.
Inhalation: MAY CAUSE IRRITATION OF MUCOUS MEMBRANES, NOSE & THROAT, HEADACHE, DIZZINESS, NAUSEA, NUMBNESS OF THE EXTREMITIES, AND NARCOSIS IN HIGH CONCENTRATIONS. HAS CAUSED CNS DEPRESSION & LIVER DAMAGE IN ANIMALS. HIGH CONCENTRATIONS HAVE CAUSED RETARDATION OF FETAL DEVELOPMENTS IN RATS.
Signs and Symptoms of Exposure: CHRONIC EFFECTS: PROLONGED OR REPEATED SKIN CONTACT WITH PRODUCT MAY CAUSE SKIN IRRITATION AND POSSIBLE DERMATITIS. MAY BE ABSORBED THROUGH SKIN.

Medical Conditions Aggravated by Exposure:	PERSONS WITH PRE-EXISTING EYE AND SKIN DISORDERS OR RESPIRATORY CONDITIONS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF CONTACT WITH THIS PRODUCT. PERSONS WITH SENSITIVE AIRWAYS (E.G. ASTHMATICS) MAY REACT TO VAPORS.
Other:	CARCINOGENIC STATUS: THE COMPONENTS OF THIS MIXTURE ARE NOT KNOWN TO BE LISTED OR REGULATED BY IARC, NTP, OSHA OR ACGIH.

IV. FIRST AID MEASURES

Eyes:	IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Skin:	RINSE EXPOSED AREA WITH CLEAN WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
Ingestion:	DO NOT INDUCE VOMITING. DRINK TWO GLASSES OF WATER OR MILK. NEVER GIVE ANYTHING ORALLY TO AN UNCONSCIOUS OR CONVULSING PERSON. GET PROMPT MEDICAL ATTENTION.
Inhalation:	REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET PROMPT MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

Flash Point:	0 – 5 °F
Lower Flammability Limit:	1.8% VOL
Upper Flammability Limit:	11.8% VOL
Extinguishing Agents:	DRY CHEMICAL, CARBON DIOXIDE, FOAM OR WATER FOG. CLASS BC OR ABC FIRE EXTINGUISHER FOR SURROUNDING AREAS INVOLVED IN FIRE. FOR LARGE FIRES, EVACUATE AREA AND CALL FIRE DEPARTMENT PROMPTLY.
Unusual Fire or Explosion Hazards:	IRRITATING AND TOXIC SUBSTANCES WILL BE EMITTED UPON COMBUSTION, BURNING, OR DECOMPOSITION OF THE DRY SOLIDS.
Fire Fighting Procedures:	SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup:	STEPS TO BE TAKEN IN CASE MATERIALS ARE RELEASED OR SPILLED USE REQUIRED PERSONAL PROTECTIVE EQUIPMENT WHEN ENTERING SPILL AREA. SPILLED PRODUCT MAY BE EXTREMELY SLIPPERY. CONTAIN SPILL. IF SPILLED IN AN ENCLOSED AREA, VENTILATE. USE INERT MATERIAL SUCH AS SAWDUST, OR OTHER APPROVED INERT SOLID TO ABSORB SPILL. DO NOT FLUSH RESIDUE TO SANITARY SEWER, SURFACE WATERS OR OTHER WATER SYSTEMS. PLACE RESIDUAL ABSORBED MATERIAL IN APPROPRIATE CONTAINERS FOR DISPOSAL. REUSE OF RESIDUAL MATERIAL IS NOT ADVISED.
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VII. HANDLING AND STORAGE

Other:	<p>HANDLING AVOID EYE AND REPEATED OR PROLONGED SKIN CONTACT. AVOID INHALATION AND INGESTION. WASH THOROUGHLY AFTER HANDLING THIS PRODUCT. DRIED PRODUCT ON SKIN MAY BE DIFFICULT TO REMOVE WITH NORMAL SOAP AND WATER. USE AN APPROVED WATERLESS HAND CLEANER IF AVAILABLE. AVOID CONTACT WITH UNPROTECTED CLOTHING SINCE DRIED RESIDUES OF THIS PRODUCT MAY BE DIFFICULT OR IMPOSSIBLE TO REMOVE.</p> <p>STORAGE PREFERRED STORAGE IS BETWEEN 60 AND 100 DEG. F. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT FROM MOISTURE CONTAMINATION. IF CONTAINER IS TO BE RETURNED OR RECYCLED, MAKE SURE CONTAINER IS EMPTY. DO NOT REUSE CONTAINER OR ALLOW UNAUTHORIZED USE OF EMPTY CONTAINERS. RECYCLE OR DISPOSE OF EMPTY CONTAINERS WITH APPROVED AGENCIES.</p>
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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	<p>EYE PROTECTION: WEAR EYE PROTECTION</p>
Skin:	<p>PROTECTIVE GLOVES: USE NITRILE OR NEOPRENE RUBBER GLOVES. DRIED PRODUCT ON SKIN MAY BE DIFFICULT TO REMOVE.</p> <p>OTHER PROTECTIVE EQUIPMENT: DISPOSABLE CLOTHING PROTECTION WEAR MAY PREVENT PERMANENT DAMAGE TO CLOTHING.</p>
Respiratory:	NONE NORMALLY REQUIRED UNDER NORMAL USE.
Engineering:	<p>VENTILATION: ALWAYS PROVIDE SUFFICIENT GENERAL AND/OR LOCAL EXHAUST DURING NORMAL USE TO PREVENT ROUTINE INHALATION.</p>

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	OPAQUE LIQUID
Boiling Point:	151° F (66° C)
pH:	(AS IS): N/A
Solubility in Water:	NEGLIGIBLE IN WATER
Specific Gravity:	0.90 +/- 0.015
Vapor Pressure:	145 MMHG @ 20° C
Vapor Density:	2.5 (HEAVIER THAN AIR)
Volatile Content:	PERCENT VOLATILES: 88 +/- 2% VOC: DETERMINED
Other:	EVAPORATION RATE: 5.5 – 8.0

X. STABILITY AND REACTIVITY

Stability:	STABLE
Hazardous Polymerization:	WILL NOT OCCUR
Hazardous Decomposition Products:	CARBON MONOXIDE AND CARBON DIOXIDE
Incompatible Products:	ACIDS, OXIDIZING MATERIALS, ALKALIS, CHLORINATED INORGANICS (POTASSIUM, CALCIUM AND SODIUM HYPOCHLORITE), COPPER OR COPPER

ALLOYS.

Conditions To Avoid: HEAT, SPARKS AND OPEN FLAME**XI. TOXICOLOGICAL INFORMATION**

Other: SUBSTANCE / ROUTE / SPECIES / LD50
 ACETONE / INHAL / RAT / 5000 PPM (8 HRS)
 CYCLOHEXANOME / INHAL / RAT / 8000 PPM (4 HRS)
 METHYL ETHYL KETONE / INHAL / RAT / 2350 PPM (8 HRS)
 TETRAHYDROFURAN / INHAL / RAT / 21000 PPM (3 HRS)

TETRAHYDROFURAN WARNING: THE NATIONAL PROGRAM HAS REPORTED THAT EXPOSURE OF MICE AND RATS TO TETRAHYDROFURAN (THF) VAPOR LEVELS UP TO 1800 PPM 6 HR/DAY, 5 DAYS/WEEK FOR THEIR LIFETIME CAUSED AN INCREASED INCIDENCE OF KIDNEY TUMORS IN MALE RATS AND LIVE TUMORS IN FEMALE MICE. THE SIGNIFICANCE OF THESE FINDINGS FOR HUMAN HEALTH ARE UNCLEAR AT THIS TIME AND MAY BE RELATED TO "SPECIFIC SPECIES" EFFECTS. ELEVATED INCIDENCES OF TUMORS IN HUMANS HAVE NOT BEEN REPORTED TO THF. THF IS CURRENTLY LISTED IN THE 2004 AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENIST.

XII. ECOLOGICAL INFORMATION**Ecotoxicity:****Other:** NONE AVAILABLE FOR PRODUCT**XIII. DISPOSAL CONSIDERATIONS**

Other: EPA HAZARDOUS WASTE CODE: 001
 PRODUCT MUST BE DISPOSED OF PROPERLY UNDER FEDERAL AND STATE REGULATIONS FOR INDUSTRIAL WASTES. RECOMMENDED DISPOSAL OR INCINERATION OR DISPOSAL IN A CLASS D LANDFILL PENDING APPROVAL. AS DELIVERED, THIS PRODUCT WHEN SPILLED, RELEASED, OR DISPOSED OF IS A CHARACTERISTIC FLAMMABLE WASTE AS DEFINED AS RCRA REGULATIONS 40 CFR PART 261.

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: CONSUMER COMMODITY ORM-D FOR GALLONS, ADHESIVES, 3, UN1133, PG II
D.O.T. Hazard Class: CLASS 3

Other: DOT ID NO: UN 1133 (GALLONS ONLY)
 DOT PACKING GROUP: PG II
 DOT RQ FOR PRODUCT: NA
 DOT MARINE POLLUTANT: NA
 EMERGENCY RESPONSE GUIDE NUMBER: 127
 CANADIAN TDG/WHMIS REGULATIONS:
 TDG NAME: CONSUMER COMMODITY ORM-D
 TDG CLASS: CLASS 3
 PIN NUMBER: UN 1133 (GALLONS ONLY)
 WHMIS: B2

XV. REGULATORY INFORMATION**TSCA Status:** THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY.**EPA Sara Title III Chemical** SECTION 311/312:

Listings: ACUTE: YES
 FIRE HAZARD: YES
 CHRONIC: YES
 REACTIVE HAZARD: NO
 SUDDEN RELEASE OF PRESSURE: NO

SECTION 313: NONE

**Supplemental State
Compliance Information:** NONE

California: PROP 65: NONE
CALIFORNIA SCAQMD: NONE
EEC CLASSIFICATION: FLAMMABLE LIQUID

XVI. OTHER INFORMATION

Other: USE AS DIRECTED. DO NOT MIX WITH OTHER CHEMICALS UNLESS ADVISED BY SUPPLIER.

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.