



Extol of Ohio, Inc.

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PRODUCT NAME: PVC Welding Adhesive	GENERIC NAME: PVC Fitting Cover/Jacketing Adhesive	CHEMICAL NAME: Mixture
C.A.S. # / C.A.S. NAME: Mixture/None Assigned	FORMULA: Mixture	HAZARD LABEL: PVC-001; PVC-002
MANUFACTURER: Schuller International, Inc.	ADDRESS: P.O. Box 5108, Denver, CO 80217-5108	
TELEPHONE: 303-978-4900	EMERGENCY NUMBER: 1-800-424-9300	MFGR REV DATE: 05/01/95
TRADE NAMES: Ceel-Tite® 100 ABS Adhesive		

SECTION 1: PRODUCT IDENTIFICATION

Product Name: PVC Welding Adhesive	CAS#: Mixture/None Assigned
Generic Name: PVC Fitting Cover/Jacketing Adhesive	Formula: Mixture
Chemical Name: Mixture	Hazard Label: PVC-001; PVC-002
Manufacturer: Schuller International, Inc.	Telephone: (303)978-4900
Address: P.O. Box 5108 Denver, CO 80217-5108	Emergency: 1-800-424-9300

Trade Names:

Zeston® Perma-Weld Adhesive (Clear & White); Ceel-Tite® 300 Clear Adhesive; Ceel-Tite® 300 White Adhesive

SECTION 2: INGREDIENTS

Ingredient Name	CAS #	%	Exposure Limit(s)
Tetrahydrofuran	109-99-9	50-90	200 ppm TWA (OSHA & ACGIH) 250 ppm STEL
Methyl ethyl ketone	78-93-3	5-10	200 ppm TWA (OSHA & ACGIH) 300 ppm STEL (OSHA & ACGIH)
Polyvinyl chloride (PVC) polymer or co-polymer	None assigned	0-25	Not established
Product contains either			
1-Nitropropane / nitroethane	108-03-2 79-24-3	0-20	25 ppm TWA (OSHA & ACGIH) 100 ppm TWA (OSHA & ACGIH)
or			
Cyclohexanone	108-94-1	0-10	25 ppm TWA skin (OSHA & ACGIH)

White adhesive products contain			
Titanium dioxide (added as a colorant)	13463-67-7	Trace	10 mg/m ³ total dust (OSHA & ACGIH)

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Clear or white liquids; sweet, ketone odor.

Flammable mixture. Use water spray or fog to cool materials in or near fire. If possible, move burning material outside. Fire is difficult to extinguish. Vapors may travel, and can be ignited by a remote source.

Inhalation of vapors may cause temporary upper respiratory irritation or central nervous system depression-remove affected individuals to fresh air.

Skin contact may be treated by gently washing affected area with soap and warm water.

Eye contact may be treated by flushing eyes with large amounts of water. If irritation persists, contact a physician.

In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

Potential Health Effects

Summary:

Vapors from this product may cause eye and upper respiratory irritation, dry throat and mouth, nausea, headache, dizziness, drowsiness, and coma in extreme cases. Prolonged exposures may lead to liver and kidney injury.

Acute (Short-Term) Health Effects:

Vapors from this product may cause irritation of the eyes, and upper respiratory tract including the nose, mouth, and throat. Inhalation of vapors may cause headache, numbness of the fingers and arms, incoordination, weakness, slowed respiration (breathing), and narcosis (drowsiness). Prolonged skin contact may produce irritation, and dermatitis. Eye contact may result in irritation of the eyes, and lacrimation (watering).

Chronic (Long-Term) Health Effects:

Prolonged, excessive exposures to vapors of this product may produce liver and kidney injury.

Target Organs:

Upper respiratory passages, central nervous system, skin, eyes, liver, kidney.

Primary Routes of Entry (Exposure):

Inhalation, skin, and eye contact.

Medical Conditions Which May Be Aggravated:

Pre-existing eye, skin, respiratory, liver and kidney diseases or conditions.

Symptoms Of Overexposure

Inhalation:

Irritation of the upper respiratory tract, headache, nausea, dizziness, weakness, loss of coordination, slow breathing, narcosis (drowsiness), unconsciousness and asphyxiation may occur in extreme exposures.

Skin:

Irritation, dermatitis (skin rash or redness) may occur.

Absorption:

Cyclohexanone can contribute to the overall exposure by skin, mucous membranes, and eyes, either by contact with vapors, or direct contact with the product.

Ingestion:

This product is not intended to be ingested or eaten under normal conditions of use. If ingested, it may cause gastrointestinal (GI) irritation, nausea, vomiting, and diarrhea. Aspiration of this material into the lungs due to vomiting, for example, can cause chemical pneumonitis which can be harmful or fatal.

Eye:

Irritation may occur, with possible watering of the eyes, and blurred vision.

SECTION 4: FIRST AID MEASURES

Inhalation:

Remove to fresh air.

Skin:

Remove contaminated clothing and gently wash exposed areas with soap and warm water. If irritation develops or persists, seek medical attention. Launder contaminated clothing before reuse.

Absorption:

Same as skin contact.

Ingestion:

Product is not intended to be ingested or eaten. If this product is ingested, do not induce vomiting and seek medical attention immediately. Do not make an unconscious person vomit.

Eye:

Flush eyes with large amounts of water for 5-15 minutes. If irritation develops or persists, seek medical attention.

Notes to Physician:

Treatment for inhalation of vapors should be symptomatic with supportive therapy. Skin and eye contact may be treated by washing the exposed area. Removal from exposure will generally result in complete recovery.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: -6°C/21°F

Method: TCC

Flammable Limits: Not determined

Flammable Classification: Not determined

Flame Propagation: Not determined

Explosive Limits:

LEL: 1.0%

UEL: 6.0%

Autoignition Temperature: Not determined

Decomposition Temperature: Not determined

Unusual Fire/Explosion Hazards:

Containers exposed to elevated temperatures (such as heat or flames) may develop pressure build-up and rupture. Vapors may travel, and can be ignited by a remote source.

Use water spray or fog to cool materials in or near fire. Material is highly volatile and readily gives off vapors which can over-pressurize containers when exposed to extreme heat. If possible, move burning material outside. Fire is difficult to extinguish. Vapors may travel, and can be ignited by a remote source. Use normal fire-fighting protective

equipment to protect from inhalation of smoke and gases.

Extinguishing Media:

Carbon dioxide (CO₂), foam, dry chemical. Water should be used only to cool materials in or near the fire, but may not be effective in extinguishing the fire.

SECTION 6: ACCIDENTAL SPILL/RELEASE MEASURES

Containment Procedures:

Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth, or other suitable absorbant. Prevent entry of material into sewers, water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposure levels below the applicable exposure limits. Shovel absorbed material into containers in well-ventilated area.

Disposal:

Wastes are hazardous as defined by the Resource Conservation and Recovery Act (RCRA; 40 CFR 261). Dispose of spilled material in accordance with federal, state, and local regulations in a permitted hazardous waste management facility. Incineration is the preferred method of disposal. Empty containers must be handled with care due to product residue. Decontaminate empty containers prior to disposal. Do not heat or cut empty containers with electric or gas torch. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

SECTION 7: HANDLING AND STORAGE

Storage Handling:

Use protective equipment described in Section 8 of this material safety data sheet when handling uncontained material. Store in a cool, dry area. Store in tightly closed containers to prevent contamination. Keep containers sealed when not in use and clean spills promptly to reduce air concentrations and floor hazards.

Storage Avoid:

Keep away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames. Containers exposed to elevated temperatures (such as heat or flames) may develop pressure build-up and rupture.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Summary:

Protective equipment should be provided as necessary to prevent irritation to the throat, eyes, and skin, and to keep exposures below the applicable exposure limits identified in Section 2.

Eye:

Safety glasses with sideshields are recommended to prevent splashing of material in eyes.

Skin:

Gloves should be worn when handling this product to prevent excessive skin contact. Teflon (PTFE) has been indicated as a suitable material of construction for protection from both methyl ethyl ketone and tetrahydrofuran.

Respiratory:

Use a NIOSH-approved organic vapor respirator to protect against inhalation of vapors. A respirator should be used if ventilation is unavailable, or is inadequate for keeping vapor levels below the applicable exposure limits.

Ventilation:

Local exhaust ventilation should be provided at areas of use to remove gases & vapors from work area. General dilution ventilation should be provided as necessary to keep gases & vapors below the applicable exposure limits and guidelines. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.

Other:

Other impervious clothing (apron, boots, etc.) can also help to reduce skin exposure.

Special Considerations for Repair/Maintenance of Contaminated Equipment:

Use personal protective equipment as discussed above.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 55.5°-61°C/132°-151°F	Melting Point: Not applicable
Vapor Pressure: 143 mm Hg (20°C/68°F)	Water Solubility (%): Nil
Total VOC (g/liter): Not determined	Solids Content: Not determined
% Volatile by Volume: 35-95%	pH: Not determined
Viscosity: Not determined	Saturation in Air (%): Not determined
Specific Gravity: 0.89-0.95 (Water = 1)	
Evaporation Rate: >1 (Butyl acetate = 1)	
Vapor Density: 2.5 (Air = 1)	

Appearance and Odor:

Clear or white liquids; sweet, ketone odor.

SECTION 10: STABILITY AND REACTIVITY

Product is stable.

Hazardous polymerization will not occur.

Reactivity:

This product is not reactive.

Incompatible Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, hydrogen chloride, and other partially oxidized hydrocarbons.

SECTION 11: TOXICOLOGICAL AND EPIDEMIOLOGICAL DATA

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated based on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Acute Effects:

Vapors from this product may cause irritation of the eyes, and upper respiratory tract including the nose, mouth, and

throat. Inhalation of vapors may cause headache, numbness of the fingers and arms, incoordination, weakness, slowed respiration (breathing), and narcosis (drowsiness). Prolonged skin contact may produce irritation, and dermatitis. Eye contact may result in irritation of the eyes, and lacrimation (watering).

The LD₅₀ and LC₅₀ (dose or concentration lethal to 50% of a population of test animals) for this product have not been determined.

Chronic Effects:

Prolonged, excessive exposures to vapors of this product may produce liver and kidney injury. Methyl ethyl ketone has shown possible reproductive risks in one animal study; a second study was negative.

References:

Canadian Centre for Occupational Health & Safety, The Chemical Advisor & CC Info MSDS CD-ROMs, 250 Main Street East, Hamilton, ON L8N 1H6, Canada, First Quarter, 1995.

American Conference of Governmental Industrial Hygienists, "Documentation of the Threshold Limit Values, Supplemental Documentation 1984," ACGIH, Cincinnati, OH, 1984.

Clayton, G.D., and F.E. Clayton, eds., "Pattys Industrial Hygiene and Toxicology, Third Revised Edition: Volume 2 - Toxicology," John Wiley and Sons, New York, 1981.

Proctor, N.H., et al., "Chemical Hazards of the Workplace," 2nd Edition, Philadelphia, PA, J.B. Lippincott Company, 1988.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Product has not been tested for ecotoxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Summary:

Wastes are hazardous as defined by the Resource Conservation and Recovery Act (RCRA; 40 CFR 261). Dispose of waste material in accordance with federal, state, and local regulations in a permitted hazardous waste management facility. Incineration is the preferred method of disposal. Empty containers must be handled with care due to product residue. Decontaminate empty containers prior to disposal. Do not heat or cut empty containers with electric or gas torch. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name:

Adhesive

Hazard Classification:

3

UN/NA Number:

UN1133

Packing Group:

II

SECTION 15: REGULATORY INFORMATION

U. S. Regulations**Federal Regulations:**

This product has not been classified a carcinogen by the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or the National Toxicology Program (NTP).

The OSHA Permissible Exposure Limits (PELs) identified in Section 2 are based upon the revised PELs of 1988. OSHA has been challenged by the courts to provide more information about its update process. Until these issues are resolved, Schuller will continue to list these PELs.

This product and its components are listed on the Toxic Substances Control Act Chemical Substance Inventory (TSCA).

Tetrahydrofuran (CAS No. 109-99-9) is a Section 4 regulated chemical and is covered by Section 12 (b) of TSCA.

Other Environmental Information:

Component	CAS #	Percent	SARA 313	SARA 302	CERCLA	CERCLA
				TPQ(lbs)		RQ(lbs)
Tetrahydrofuran	109-99-9	50-90	No	NA	Yes	1,000
Methyl ethyl ketone	78-93-3	5-10	Yes	NA	Yes	5,000
Cyclohexanone	108-94-1	0-10	No	NA	Yes	5,000

International Regulations

Canada Domestic Substance List (DSL): This product and its component parts are listed on the Canada Domestic Substance List.

SECTION 16: OTHER INFORMATION

For additional information concerning this product, contact the Schuller Product Information Center at P.O. Box 5108, Denver, CO 80217-5108, or call toll-free (800)654-3103 (outside the U.S., call collect (303)978-4900).

MSDS Revision Summary:

Date	MSDS #	Reason
01/31/92	2006-1.0	Format revision
04/15/92	2006-2.0	Preparer/Manufacturer name change
09/15/92	2006-3.0	Sects. 1, 2, 9 & 11, Addition of Ceel-Tite* 300 Clear and Ceel-Tite* 300 White Adhesives; Manufacturer name change
11/30/92	2006-3.1	Sect. 11: Revised
06/15/93	2006-3.2	Sect. 11: Regulatory change (Transport Information) Sect. 2,3: Regulatory change: Exposure limits, skin designation for cyclohexanone
02/28/94	2006-3.3	Sect. 11: DOT
08/31/94	2006-3.4	All sections: reviewed and updated, based on vendor material safety data sheet
05/01/95	2006-3.5	Conversion to ANSI 16 section format.
07/19/95	2006-3.6	Section 15 Regulatory Information: tetrahydrofuran (CAS # 109-99-9) is regulated under TSCA 12(b).

Prepared for:





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As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

--- END OF MSDS 2006-3.6 ---

 EXTOL INSULATION SYSTEMS: COMPLETE PRODUCT LINE COMPOSITE INSULATIONS CONTOURED HEAD SYSTEMS EXCEL-LAP SYSTEMS ISOWRAP® PRECISION CUT TRACED LINE SYSTEMS VALVE & JACKET SYSTEMS	 DATA SECTIONS: DESIGN & INSTALLATION TIPS ESTIMATING TIPS / & CHARTS EXTOL SYSTEMS DATA MSDS LISTED BY MANUFACTURER MSDS LISTED BY PRODUCT TYPE PRODUCT DATA SHEETS PUBLICATIONS & ARTICLES	 BACK TO MAIN OBTAIN A QUOTE SURPLUS MATERIAL PLACE AN ORDER EMPLOYMENT OPPORTUNITIES  PASSKEY SECTION: WAIVER / PASSKEY REQUEST INSULATION SPECIFICATIONS DETAILED DRAWINGS COLD/HOT
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