

MATERIAL SAFETY DATA SHEET

Supplier: Johnsonite, Inc.
16910 Munn Road, Chagrin Falls, Ohio 44023

Product: Cold Weld Liquid

24-Hour Emergency Telephone - Chemtrec: (800-424-9300)

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: JOHNSONITE CWL
CHEMICAL FAMILY: PVC Cold Welding Liquid

SECTION 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Tetrahydrofuran (stabilized)	109-99-9	90-95	Not Established	Not Established

SECTION 3. HAZARDS IDENTIFICATION

Product is highly flammable and may form explosive peroxides.

PRIMARY ROUTES OF ENTRY: Eyes, Skin, Inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause slight irritation.

SKIN CONTACT: May cause slight irritation.

INGESTION: May cause slight irritation to mouth, throat, and digestive system.

INHALATION: Inhalation of vapors or mists may irritate nose, throat, and respiratory tract. Inhalation of higher concentrations may cause headache, nausea, and dizziness. Prolonged exposure may cause unconsciousness.

CHRONIC: Persons with pre-existing eye, skin, or respiratory conditions may be more susceptible.

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. Call physician if irritation occurs.

SKIN CONTACT: Wash with soap and water. Consult a physician.

INGESTION: To conscious person, rinse mouth immediately and then give two glasses of water. Immediately call physician or poison control center. Do not induce vomiting without medical advice.

INHALATION: Move person to fresh air. Give artificial respiration if not breathing.

SECTION 5. FIRE-FIGHTING MEASURES

FLASH POINT: -6° F (-21.5° C)

FIRE-FIGHTING INSTRUCTIONS: Carbon Dioxide (CO₂), dry chemical powder or appropriate foam. Keep container cool by spraying with water. Use protective clothing and self-contained breathing apparatus.

FUTHER INFORMATION: Collect contaminated extinguishing water separately; do not allow to reach sewage or effluent systems.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Eliminate all sources of ignition. Do not breathe vapors. Contain spill.

SMALL SPILLS: Absorb small amount with absorbent material and dispose correctly.

LARGE SPILLS: Do not allow to reach sewerage, surface or underground water. Dam off and pump into containers. Transfer spill material to secure container(s) for disposal.

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SECTION 7. HANDLING AND STORAGE

HANDLING: Protect against fire and explosion. Prevent electrostatic charge – source of ignition should be kept clear. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling. Use good hygienic practices. (Wash hands before eating, using washroom, or smoking.) Keep out of the reach of children.

STORAGE: Do not store in PVC container. Store in a cool dry place. Keep below 86° F (30° C). Store in closed container to prevent exposure to air. 3 year shelf life.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

Usual safety precautions for handling of chemicals are to be observed. Avoid contact with skin, eyes, clothing and inhaling vapors.

EYE/FACE PROTECTION: Wear safety glasses or chemical splash goggles if contact with material is likely.

SKIN PROTECTION: Wear NIOSH approved gloves where contact with material is likely.

RESPIRATORY PROTECTION: Not normally required with good ventilation. Use a NIOSH approved respirator that prevents passage of vinyl acetate monomer where PEL can be exceeded.

ENGINEERING CONTROLS: Normal room ventilation. Site-specific mechanical exhaust where processing fumes or enclosed work areas cause build-up of fumes or vapors, and/or where PEL can be exceeded.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 149° F (65° C)

FLASH Point: -7° F (-21.5° C)

SPECIFIC GRAVITY (WATER = 1): 0.9

VAPOR PRESSURE: 200 mbar (68° F)

VAPOR DENSITY (air=1): 2.5.

% VOLATILE BY Volume: 100

pH: 7-8

APPEARANCE AND ODOR: Colorless, liquid, ether like order.

SECTION 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable heat, sparks, flames, or other sources of ignition.

POLYMERIZATION: Will not occur.

MATERIALS TO AVOID: Strong oxidizing agents, metals, acids

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Peroxides, in case of fire: hydrogen chloride (HCL)

SECTION 11. TOXICOLOGICAL INFORMATION

Tetrahydrofuran: LC₅₀ rat (Oral): 4.430 mg/kg (BASF-Test)

LC₅₀ rat (by inhalation): 66mg/l 22000 ppm 4 h (BASF-Test)

Irritation to eyes and respiratory system.

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SECTION 12. ECOLOGICAL INFORMATION

Biodegradable.

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Do not release untreated (biological treatment plants) into natural waters.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

Description for Ground Transport:

“UN 1133, Adhesives, containing a flammable liquid, 3, II, Limited Quantity”. Shipper is responsible for all applicable DOT provisions as stated in CFR 49.

Description for Air Transport:

“UN 1133, Adhesives, containing a flammable liquid, 3, II, Limited Quantity”. Shipper must provide UN approved ‘Class 3 Flammable Liquid’ and ‘Limited Quantity’ labels, and is responsible for provisions as stated by IATA.

DOT regulations may change from time to time. Please consult the most recent version of the relevant regulations.

SECTION 15. REGULATORY INFORMATION

TSCA: The components of this product are listed on the TSCA inventory.

SARA TITLE III:

Section 311 and 312 Health and Physical Hazards:

Immediate	Delayed	Fire	Pressure	Reactivity
[]	[X]	[]	[]	[]

Section 313 Chemicals:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% by Weigh</u>
Tetrahydrofuran Stablized	109-99-94	90-95%

HAZARDOUS AIR POLLUTANTS: Tetrahydrofuran Stablized

CALIFORNIA VOC (Volatile Organic Compound) COMPLIANCE:

SCAQMD Rule 1168 Not Tested

SCAQMD Rule 443.1: Not Tested

Not Tested

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SECTION 16. OTHER INFORMATION

HMIS RATINGS: Health = 2 Flammability = 3 Reactivity = 0
Personal Protective Equipment = B * Denotes potential chronic health hazard
Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

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CONTACT: Don Styka