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Material Safety Data Sheet (MSDS)

Balkamp Loctite(R) Weld Cold Weld Bonding CMPD, Loc-Weld

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MATERIAL SAFETY DATA SHEET
Effective Date: 10-23-95                          Revision Date:  none
Balkamp Loctite(R) Weld Cold Weld Bonding CMPD, Loc-Weld
Code: LOC                                                       Page: 1
==========================================================================
Section 1 - Product and Company Identification

PRODUCT NAME: Balkamp Loctite(R) Weld Cold Weld Bonding CMPD, Loc-Weld

MANUFACTURER'S NAME:                          EMERGENCY TELEPHONE NUMBER
Loctite Corporation                                (203)571-5100

Rocky Hill, CT 06067                         MISCELLANEOUS INFORMATION


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MATERIAL SAFETY DATA SHEET
Effective Date: 10-23-95                          Revision Date:  none
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Section 2 - Hazardous Ingredients
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Ingredients	CAS No.	%
RESIN		
Epoxy resin	25068-38-6	40-45
Barium sulfate	7727-43-7	20-25
Calcium Carbonate	471-34-1	20-25
Iron oxide	1309-38-2	15-20
SILICA, AMORPHOUS TREATED	112945-52-5	1-3
HARDENER		
Calcium Carbonate	471-34-1	35-40
Polymercaptan	101359-87-9	25-30
Barium sulfate	7727-43-7	10-15
Aluminum silicate	1327-36-2	5-10
DIETHYLENETRIAMINE	111-40-0	5-10
Heptakis(dipropyleneglycol)-triphosphate	13474-96-9	1-3
TITANIUM DIOXIDE	13463-67-7	1-3
SILICA, AMORPHOUS TREATED	112945-52-5	0.1-1

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
RESIN			
Barium sulfate	10 mg/m3 dust	10 mg/m3 dust	None
5 mg/m3 respir.			
Calcium Carbonate	10 mg/m3 dust	15 mg/m3 dust	None
5 mg/m3 respir.			
Iron oxide	5 mg/M3 (Fe)	10 mg/M3 (Fe)	None
particulate			
SILICA, AMORPHOUS TREATED	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA
resp. dust			

HARDENER			
Calcium Carbonate	10 mg/m3 dust	15 mg/m3 dust	None
5 mg/m3 respir.			
Barium sulfate	10 mg/m3 dust	10 mg/m3 dust	None
5 mg/m3 respir.			
DIETHYLENETRIAMINE	1 ppm skin	1 ppm TWA	None
4.2mg/m3 skin 4mg/m3			
TITANIUM DIOXIDE	10 mg/m3 dust	15 mg/m3 dust	None
5 mg/m3 resp			
SILICA, AMORPHOUS TREATED	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA
resp. dust			

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
RESIN		

Section 2 - Hazardous Ingredients - Continued

HARDENER

Section 3 - Hazards Indentification

Toxicity: Skin and eye irritant. Skin sensitizer. Moderately toxic by ingestion.
Primary Routes of Entry: Skin, ingestion, inhalation.
Signs and symptoms of Exposure: May cause eye irritation and other allergic responses such as skin sensitization or dermatitis
Existing Conditions Aggravated by Exposure: None known

Literature Referenced Ingredients	Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
RESIN				
Epoxy resin	ALG IRR	NO	NO	NO
Barium sulfate	LUN	NO	NO	NO
Calcium Carbonate	NUI	NO	NO	NO
Iron oxide	No Data	NO	NO	NO
SILICA, AMORPHOUS TREATED	NUI	NO	N/A	NO
HARDENER				
Calcium Carbonate	NUI	NO	NO	NO
Polymercaptan	No Data	NO	NO	NO
Barium sulfate	LUN	NO	NO	NO
Aluminum silicate	No Data	NO	NO	NO
DIETHYLENETRIAMINE	ALG IRR	NO	NO	NO
Heptakis(dipropyleneglycol)-triphosphate	No Data	NO	NO	NO
TITANIUM DIOXIDE	IRR NUI	NO	NO	NO
SILICA, AMORPHOUS TREATED	NUI	NO	N/A	NO

Abbreviations

N/A Not Applicable
IRR Irritant
NUI Nuisance dust
ALG Allergen
LUN Lung

Section 4 - First Aid Measures

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms persist,

obtain medical attention.
Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

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Section 5 - Firefighting Measures

Flash Point: More than 400 Deg. F Method: Open cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Hazardous Products formed
by Fire or Thermal Decomp Irritating organic vapors
Unusual Fire or
Explosion Hazards: None

Explosive Limits:
(% by volume in air)Lower Not available
(% by volume in air)Upper Not available

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Section 6 - Environmental Release Measures

Steps to be taken in case
of spill or leak: Scrape up as much as possible. Store in closed containers until disposal. Do not store scrap resin with scrap hardener.

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Section 7 - Handling and Storage

Safe Storage: Store in a cool, dry area.
DO NOT STORE SCRAP RESIN WITH SCRAP HARDENER

(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)

Handling: Avoid skin contact. Keep away from eyes.
Avoid prolonged breathing of vapors.

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Section 8 - Exposure Controls/Personal Protection

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below TLV.

See Section 2 for Exposure Limits.

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Section 9 - Physical and Chemical Properties

Appearance: Resin: Black paste
Hardener: Beige paste
Odor: Resin: Mild
Hardener: Sulfur
Boiling Point: More than 300 Deg. F
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity Resin: 1.82
Hardener: 1.75
Volatile Organic Compound
(EPA Method 24) Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaportation Rate
(Ether = 1) Not available

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Section 10 - Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Oxidizing agents.
Hazardous Decomposition

Products (non-thermal): None

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Section 11 - Toxicological Information

See Section 3.

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Section 12 - Ecological Information

No data available

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Section 13 - Disposal Considerations

Recommended methods of
disposal: Incinerate following EPA and local regulations.
Barium level should be checked: D005.

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Section 14 - Transport Information

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

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Section 15 - Regulatory Information

CA Proposition 65: Warning: This product contains a chemical known to the State of California to cause cancer.
Epichlorohydrin

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Section 16 - Other Information

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark ot the National Paint and Coatings Assn.

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Revision Date: January 22, 1996 Revision: 0015

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