

Balkamp Form-A-Thread(TM) Stripped Thread Repair Adhesive

MATERIAL SAFETY DATA SHEET

Effective Date: none Revision Date: none

Balkamp Form-A-Thread(TM) Stripped Thread Repair Adhesive

Code: LOC Page: 1

Section 1 - Product and Company Identification

PRODUCT NAME: Balkamp Form-A-Thread(TM) Stripped Thread Repair Adhesive

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER

Loctite Corporation (203)571-5100

Rocky Hill, CT 06067 MISCELLANEOUS INFORMATION

Section 2 - Hazardous Ingredients

Ingredients CAS No. %

Aromatic dimethacrylate ester 24448-20-2 35-40

Glass 65997-17-3 25-30

ALUMINUM 7429-90-5 20-25

ACRYLIC ACID* 79-10-7 3-5

Heterocyclic methacrylate 2455-24-5 1-3

SILICA, AMORPHOUS (FUMED) 7631-86-9 1-3

1-Acetyl-2-phenylhydrazine 114-83-0 0.1-1

CUMENE HYDROPEROXIDE* 80-15-9 0.1-1

2,6-DI-tert-BUTYL-p-CRESOL 128-37-0 0.1-0.5

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) ACGIH OSHA OTHER

Ingredients (TLV) (PEL)

ALUMINUM 10 mg/m³ dust 15 mg/m³ dust None
5 mg/m³ respir.

ACRYLIC ACID 2 ppm TWA skin 10 ppm TWA skin 1 ppm TWA skin
5.9 mg/m3 skin 30 mg/m3 skin 3 ppm STEL skin
SILICA, AMORPHOUS (FUMED) 10mg/m3 TWA 6mg/m3 TWA None
2,6-DI-tert-BUTYL-p-CRESOL None None 10 mg/m3

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

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Section 3 - Hazards Identification

Toxicity: Liquid is an eye and skin irritant.

Vapors may irritate eye, nose and throat.

Estimated oral LD50 more than 5000 mg/kg.

Estimated dermal LD50 more than 2000 mg/kg.

Primary Routes of Entry: None known

Signs and symptoms

of Exposure: Irritation of eyes, skin , nose or throat. May
cause dermatitis on,prolonged contact in
sensitive individuals.

Existing Conditions

Aggravated by Exposure: Acrylic acid: Upper respiratory and lung
diseases, dermatitis

Literature Referenced Carcinogen

Ingredients Target Organ and Other Health Effects NTP IARC

OSHA

Aromatic dimethacrylate ester ALG IRR NO NO NO

Glass No Data NO NO NO

ALUMINUM IRR LUN NO NO NO

ACRYLIC ACID ALG COR IRR NO N/A NO

Heterocyclic methacrylate ALG IRR NO NO NO

SILICA, AMORPHOUS (FUMED) NUI NO N/A NO

1-Acetyl-2-phenylhydrazine ALG NO NO NO

CUMENE HYDROPEROXIDE ALG CNS COR IRR MUT NO NO NO

2,6-DI-tert-BUTYL-p-CRESOL IRR MUT NO N/A NO

Abbreviations

N/A Not Applicable ALG Allergen
CNS Central nervous system COR Corrosive
IRR Irritant LUN Lung
MUT Mutagen NUI Nuisance dust

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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 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 200 Deg. F Method: Tag Closed 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: If ignited, burns with unusual heat evolution. In
a fire, reaction with water is possible.
Explosive Limits:
(% by volume in air)Lower 2.0% Acrylic acid
30% Aluminum metal
(% by volume in air)Upper 8.0% Acrylic acid
Unknown Aluminum metal

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Section 6 - Environmental Release Measures

Steps to be taken in case of spill or leak: Soak up with an inert absorbent. Store in a partly filled, closed container until disposal.

Section 7 - Handling and Storage

Safe Storage: Store below 100 Deg. F

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

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

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: Grey Liquid
Odor: Mild
Boiling Point: More than 300 Deg. F
pH: Does not apply
Solubility in Water: Low
Specific Gravity 1.57
Volatile Organic Compound
(EPA Method 24) 9.9%

Vapor Pressure: Less than 5mm at 80 Deg. C
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

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Section 10 - Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: None
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.

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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: No Prop65 chemicals are known to be present.

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Section 16 - Other Information

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

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

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

Prepared By: Stephen Repetto
Title: Research Chemist, Environmental Health & Safety
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: January 22, 1996 Revision: 0028

Balkamp Form-A-Thread(TM) Stripped Thread Repair Activator

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Balkamp Form-A-Thread(TM) Stripped Thread Repair Activator
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Section 1 - Product and Company Identification

PRODUCT NAME: Balkamp Form-A-Thread(TM) Stripped Thread Repair Activator

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

Rocky Hill, CT 06067 MISCELLANEOUS INFORMATION

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Section 2 - Hazardous Ingredients

Ingredients CAS No. %

Aromatic dimethacrylate ester 24448-20-2 40-45
Glass 65997-17-3 25-30
ALUMINUM 7429-90-5 20-25
Heterocyclic methacrylate 2455-24-5 1-3
SILICA, AMORPHOUS (FUMED) 7631-86-9 1-3
Organo-copper compound 1338-02-9 0.1-0.5

Ingredients which have exposure limits

Exposure Limits (TWA) ACGIH OSHA OTHER
Ingredients (TLV) (PEL)

ALUMINUM 10 mg/m3 dust 15 mg/m3 dust None
5 mg/m3 respir.
SILICA, AMORPHOUS (FUMED) 10mg/m3 TWA 6mg/m3 TWA None
Organo-copper compound Cu 0.2mg/m3fume Cu 0.1mg/m3fume None
Cu 1 mg/m3 dust Cu 1 mg/m3 dust

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

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Section 3 - Hazards Identification

Toxicity: Estimated oral LD50 more than 5000 mg/kg.

Estimated dermal LD50 more than 2000 mg/kg.

Primary Routes of Entry: None known

Signs and symptoms

of Exposure: May cause dermatitis on prolonged contact in sensitive individuals. Liquid may be an eye irritant

Existing Conditions

Aggravated by Exposure: None known

Literature Referenced Carcinogen

Ingredients Target Organ and Other Health Effects NTP IARC OSHA

Aromatic dimethacrylate ester ALG IRR NO NO NO

Glass No Data NO NO NO

ALUMINUM IRR LUN NO NO NO

Heterocyclic methacrylate ALG IRR NO NO NO

SILICA, AMORPHOUS (FUMED) NUI NO N/A NO

Organo-copper compound BLO IRR NO NO NO

Abbreviations

N/A Not Applicable ALG Allergen

BLO Blood IRR Irritant

LUN Lung NUI Nuisance dust

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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 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 200 Deg. F Method: Tag Closed 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: If ignited, burns with unusual heat evolution. In
a fire, reaction with water is possible.

Explosive Limits:

(% by volume in air)Lower 30% Aluminum metal

(% by volume in air)Upper Unknown Aluminum metal

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Section 6 - Environmental Release Measures

Steps to be taken in case

of spill or leak: Soak up with an inert absorbent. Store in a partly
filled, closed container until disposal. Residue
may be cleaned with solvent.

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Section 7 - Handling and Storage

Safe Storage: Store below 110 Deg. F. Observe normal safety precautions.

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

Handling: Avoid prolonged skin contact. Keep away from eyes.

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Section 8 - Exposure Controls/Personal Protection

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Does not apply

See Section 2 for Exposure Limits.

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Section 9 - Physical and Chemical Properties

Appearance: Blue-grey liquid
Odor: Mild
Boiling Point: More than 300 Deg. F
pH: Does not apply
Solubility in Water: Low
Specific Gravity 1.57
Volatile Organic Compound
(EPA Method 24) 3.6%
Vapor Pressure: Less than 5mm at 80 Deg. C
Vapor Density: Not available
Evaporation Rate
(Ether = 1) Not available

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Section 10 - Stability and Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers.
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.

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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: No Prop65 chemicals are known to be present.

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Section 16 - Other Information

Estimated NFPA(R) Code:

Health Hazard: 2

Fire Hazard: 1

Reactivity Hazard: 1

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2

Flammability Hazard: 1

Reactivity Hazards: 1

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto

Title: Research Chemist, Environmental Health & Safety

Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067

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Revision Date: January 22, 1996 Revision: 0024