

From: Loctite Corporation at 8605712595

03-24-00 12:19 pm 005 of 013

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING
 ROCKY HILL, CT 06067-3910
 EMERGENCY PHONE: (860) 571-5100

ISSUED 3/24/00
 12:13:47
 FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 1 of 3

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thread Sealant with Teflon
 Item No.: 30551
 Product Type: Sealant

Loctite = 510

TEFLON is a registered trademark of E.I. DuPont de Nemours Company Inc

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ISOPROPYL ALCOHOL	67-63-0	35-40
TALC	14807-96-6	25-30
Vegetable oil	8001-79-4	20-25
Vinyl resin	60140-65-2	10-15
Poly(tetrafluoroethylene)	9002-84-0	1-3
TITANIUM DIOXIDE	13463-67-7	1-3

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ISOPROPYL ALCOHOL	400 ppm TWA	400 ppm TWA	400 ppm TWA
TALC	500 mg/m ³	500 mg/m ³	DuPont REL
Vegetable oil	2 mg/m ³ TWA respirable dust	2 mg/m ³ TWA respirable dust	None
Poly(tetrafluoroethylene)	10 mg/m ³ mist	15 mg/m ³ mist dust	None
TITANIUM DIOXIDE	None	5 mg/m ³ mist resp	REL (DuPont) 5 mg/m ³ 8hr dust
	10 mg/m ³ dust	15 mg/m ³ dust	None
		5 mg/m ³ resp	
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ISOPROPYL ALCOHOL	500 ppm	500 ppm	
	1230 mg/m ³	1225 mg/m ³	

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant, Moderately toxic by ingestion.
 Primary Routes of Entry: Inhalation, ingestion, contact.
 Signs and Symptoms of Exposure: Vapors cause irritation of eyes, nose and throat above TLV. Headache, nausea, dizziness may occur.
 Existing Conditions Aggravated by Exposure: Skin, eye, and respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ISOPROPYL ALCOHOL	ALG BLO CNS IRR KID	NO	N/A	NO
TALC	IRR LUN SOM	NO	N/A	NO
Vegetable oil	IRR	NO	NO	NO
Vinyl resin	IRR	NO	NO	NO
Poly(tetrafluoroethylene)	NTD	NO	N/A	NO
TITANIUM DIOXIDE	IRR RES	NO	NO	NO

Abbreviations

N/A Not Applicable
 BLO Blood
 IRR Irritant
 LUN Lung
 RES Respiratory

ALG Allergen
 CNS Central nervous system
 KID Kidney
 NTD No Target Organs
 SOM Evidence of some carcinogenicity

From: Loctite Corporation at 8605712595

03-24-00 12:20 pm 006 of 013

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Page 2 of 3

Product Name:
Item No.:Thread Sealant with Teflon
305614. 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.

5. FIRE FIGHTING MEASURES

Flash Point: 74°F Method: Tag closed cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomp: Toxic fluorides

Unusual Fire or Explosion Hazards: None

Explosive Limits:
(% by volume in air) Lower 2.3%
(% by volume in air) Upper 12.7%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove ignition sources. Maintain adequate ventilation. Soak up with an inert absorbent. Store in a closed container until disposal. Clean up with isopropyl alcohol.

7. HANDLING AND STORAGE

Safe Storage: Store away from heat, sparks or flame.

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

Handling: Avoid eye contact. Avoid prolonged skin contact or prolonged breathing of fumes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Rubber or plastic gloves.

Ventilation: Must be adequate to avoid exceeding TLV.

Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White paste

Odor: Alcoholic

Boiling Point: 180°F

pH: Does not apply

Solubility in Water: Partial

Specific Gravity: 1.12 at 77°F

Volatile Organic Compound (EPA Method 24): 37.9%

Vapor Pressure: 33 mm at 68°F

Vapor Density: 2.07

Evaporation Rate (Ether = 1): 7.7

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Not available

Hazardous Decomposition Products (non-thermal): None

From: Loctite Corporation at 8665712595

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MATERIAL SAFETY DATA SHEET

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Product Name: Thread Sealant with Teflon
Item No.: 30551

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity (Not more than five liters); Resin solution (More than five liters)
Hazard Class or Division: ORM-D (Not more than five liters); Class 3, Packing Group III (More than five liters)
Identification Number: None (Not more than five liters); UN 1866 (More than five liters)
Marine Pollutant: None
IATA
Proper Shipping Name: Consumer Commodity (Not more than 500 ml); Resin Solution (More than 500 ml)
Class or Division: Class 3 (Not more than 500 ml); Class 3, Packing Group III (More than 500 ml)
UN or ID Number: ID 3000 (Not more than 500 ml); UN 1866 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

15. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazards: 0
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 - Safety, Health & Regulatory Affairs
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: January 27, 1999
Revision: 0030

From: Loctite Corporation at 8605712595

03-24-00 12:22 pm 008 of 013

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MATERIAL SAFETY DATA SHEET

Page 1 of 3

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thread Sealant with Teflon(R)
 Item No.: 80638
 Part No.: 140
 Product Type: Sealant

*Permatex
 140*

TEFLON is a registered trademark of E.I. DuPont de Nemours Company Inc

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ISOPROPYL ALCOHOL	67-63-0	35-40
TALC	14807-96-6	25-30
Vegetable oil	8001-79-4	20-25
Vinyl resin	63148-65-2	10-15
Poly(tetrafluoroethylene)	9002-84-0	1-3
TITANIUM DIOXIDE	13463-67-7	1-3

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ISOPROPYL ALCOHOL	400 ppm TWA	400 ppm TWA	400 ppm TWA
TALC	983 mg/m ³	980 mg/m ³	DuPont AEL
Vegetable oil	2 mg/m ³ TWA respirable dust	2 mg/m ³ TWA respirable dust	None
Poly(tetrafluoroethylene)	10 mg/m ³ mist	15 mg/m ³ mist dust	None
TITANIUM DIOXIDE	None	5 mg/m ³ mist resp	AEL (DuPont) 5 mg/m ³ 8hr dust
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
ISOPROPYL ALCOHOL	500 ppm	500 ppm	
	1230 mg/m ³	1225 mg/m ³	

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant. Moderately toxic by ingestion.
 Primary Routes of Entry: Inhalation, ingestion, contact.
 Signs and Symptoms of Exposure: Vapors cause irritation of eyes, nose and throat above TLV. Headache, nausea, dizziness may occur.
 Existing Conditions Aggravated by Exposure: Skin, eye, and respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ISOPROPYL ALCOHOL	ALG BLO CNS IRR KID	NO	N/A	NO
TALC	IRR LUN SOM	NO	N/A	NO
Vegetable oil	IRR	NO	NO	NO
Vinyl resin	IRR	NO	NO	NO
Poly(tetrafluoroethylene)	NTD	NO	N/A	NO
TITANIUM DIOXIDE	IRR RES	NO	NO	NO

Abbreviations

N/A Not Applicable
 BLO Blood
 IRR Irritant
 LUN Lung
 RES Respiratory
 ALG Allergen
 CNS Central nervous system
 KID Kidney
 NTD No Target Organs
 SOM Evidence of some carcinogenicity

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Product Name: Thread Sealant with Teflon(R)
Item No.: 806334. 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.

5. FIRE FIGHTING MEASURES

Flash Point: 74°F Method: Tag closed cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomposition: Toxic fluorides

Unusual Fire or Explosion Hazards: None

Explosive Limits:
(% by volume in air) Lower 2.3%
(% by volume in air) Upper 12.7%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove ignition sources. Maintain adequate ventilation. Soak up with an inert absorbent. Store in a closed container until disposal. Clean up with isopropyl alcohol.

7. HANDLING AND STORAGE

Safe Storage: Store away from heat, sparks or flame.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling: Avoid eye contact. Avoid prolonged skin contact or prolonged breathing of fumes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Rubber or plastic gloves.

Ventilation: Must be adequate to avoid exceeding TLV.

Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White paste

Odor: Alcoholic

Boiling Point: 180°F

pH: Does not apply

Solubility in Water: Partial

Specific Gravity: 1.12 at 77°F

Volatile Organic Compound (EPA Method 24): 37.9%

Vapor Pressure: 33 mm at 68°F

Vapor Density: 2.07

Evaporation Rate (Ether = 1): 7.7

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Not available

Hazardous Decomposition Products (non-thermal): None

From: Loctite Corporation at 0605712595

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Product Name: Thread Sealant with Teflon(R)
Item No.: 8063311. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONSRecommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.2114. TRANSPORTATION INFORMATIONDOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity (Not more than five liters);
Resin solution (More than five liters)
Hazard Class or Division: ORM-D (Not more than five liters);
Class 3, Packing Group III (More than five liters)
Identification Number: None (Not more than five liters);
UN 1866 (More than five liters)
Marine Pollutant: None
IATA
Proper Shipping Name: Consumer Commodity (Not more than 500 ml);
Resin Solution (More than 500 ml)
Class 3 (Not more than 500 ml);
Class 3, Packing Group III (More than 500 ml)
UN 1866 (Not more than 500 ml);
UN 1866 (More than 500 ml)15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATIONEstimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not applyEstimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazards: 0
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- Safety, Health & Regulatory Affairs
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
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Revision Date: January 27, 1999
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83-24-00 12:25 pm 811 of 813

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MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thread Sealant with Teflon
Item No.: 30551
Product Type: Sealant

Loctite
= 3140

TEFLON is a registered trademark of E.I. DuPont de Nemours Company Inc

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ISOPROPYL ALCOHOL	67-63-0	35-40
TALC	14807-96-6	25-30
Vegetable oil	8001-79-4	20-25
Vinyl resin	63140-55-2	10-15
Poly(tetrafluoroethylene)	9002-84-0	1-2
TITANIUM DIOXIDE	13463-67-7	1-2

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ISOPROPYL ALCOHOL	400 ppm TWA	400 ppm TWA	400 ppm TWA
TALC	983 mg/m3 2 mg/m3 TWA	580 mg/m3 2 mg/m3 TWA	DuPont AEL None
Vegetable oil	respirable dust 10 mg/m3 mist	respirable dust 15mg/m3mistdust 5mg/m3mist resp	None
Poly(tetrafluoroethylene)	None	None	AEL (DuPont) 5mg/m3 8hr dust None
TITANIUM DIOXIDE	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 resp	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ISOPROPYL ALCOHOL	500 ppm 1230 mg/m3	500 ppm 1225 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant. Moderately toxic by ingestion.
Primary Routes of Entry: Inhalation, ingestion, contact.
Signs and Symptoms of Exposure: Vapors cause irritation of eyes, nose and throat above TLV. Headache, nausea, dizziness may occur.
Existing Conditions Aggravated by Exposure: Skin, eye, and respiratory disorders.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ISOPROPYL ALCOHOL	ALG BLD CNS IRR KID	NO	N/A	NO
TALC	IRR LUN SOM	NO	N/A	NO
Vegetable oil	IRR	NO	N/A	NO
Vinyl resin	IRR	NO	N/A	NO
Poly(tetrafluoroethylene)	NTD	NO	N/A	NO
TITANIUM DIOXIDE	IRR RES	NO	N/A	NO

Abbreviations

N/A Not Applicable
 BLD Blood
 IRR Irritant
 LUN Lung
 RES Respiratory
 ALG Allergen
 CNS Central nervous system
 KID Kidney
 NTD No Target Organs
 SOM Evidence of some carcinogenicity

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LOCTITE CORPORATION

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Product Name: Thread Sealant with Teflon
Item No.: 305614. 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.

5. FIRE FIGHTING MEASURES

Flash Point: 74°F Method: Tag closed cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomp: Toxic fluorides

Unusual Fire or Explosion Hazards: None

Explosive Limits:
(% by volume in air) Lower 2.3%
(% by volume in air) Upper 12.7%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove ignition sources. Maintain adequate ventilation. Soak up with an inert absorbent. Store in a closed container until disposal. Clean up with isopropyl alcohol.

7. HANDLING AND STORAGE

Safe Storage: Store away from heat, sparks or flame.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)

Handling: Avoid eye contact. Avoid prolonged skin contact or prolonged breathing of fumes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.

Skin: Rubber or plastic gloves.

Ventilation: Must be adequate to avoid exceeding TLV.

Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White paste

Odor: Alcoholic

Boiling Point: 180°F

pH: Does not apply

Solubility in Water: Partial

Specific Gravity: 1.12 at 77°F

Volatile Organic Compound (EPA Method 24): 37.9%

Vapor Pressure: 33 mm at 68°F

Vapor Density: 2.07

Evaporation Rate (Ether = 1): 7.7

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Not available

Hazardous Decomposition Products (non-thermal): None

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LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

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Product Name: Thread Sealant with Teflon
Item No.: 30561

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity (Not more than five liters); Resin solution (More than five liters)
Hazard Class or Division: ORM-D (Not more than five liters); Class 3, Packing Group III (More than five liters)
Identification Number: None (Not more than five liters); UN 1866 (More than five liters)
Marine Pollutant: None
IATA
Proper Shipping Name: Consumer Commodity (Not more than 500 ml); Resin Solution (More than 500 ml)
Class or Division: Class 3 (Not more than 500 ml); Class 3, Packing Group III (More than 500 ml)
UN or ID Number: ID 8000 (Not more than 500 ml); UN 1866 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazards: 0
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
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Revision Date: January 27, 1999
Revision: 0030

