Revision Number: 003.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 7471 Primer T
Product type: activator

IDH number: 229932
Item number: 19268
Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Amber to yellowish
Odor: Acetone

HEALTH: *1
FLAMMABILITY: 3
PHYSICAL HAZARD: 0
Personal Protection: See MSDS Section 8

DANGER: FLAMMABLE LIQUID AND VAPOR.
CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Lungs, Skin, Eyes, Ingestion

Potential Health Effects

Inhalation: May cause respiratory tract irritation. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

Skin contact: Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis. Causes skin irritation.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: May cause central nervous system effects, such as headache, nausea, vomiting, abdominal pain, dizziness, confusion, and breathing difficulties. May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Acetone	67-64-1	60 - 100
2-Propanol	67-63-0	10 - 30
2,2'-[(4-methylphenyl)imino]bisethanol	3077-12-1	1 - 5
2-Mercaptobenzothiazole	149-30-4	0.1 - 1

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:	Wash with soap and water.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.
Ingestion:	If conscious, drink plenty of water. Get medical attention. Do not induce vomiting. Keep individual calm.

5. FIRE FIGHTING MEASURES

Flash point:	-8 °C (17.6 °F) ; Estimated
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Ensure adequate ventilation. Remove all sources of ignition. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition.
Storage:	For safe storage, store at or below 49 °C (120.2 °F) Store away from heat, sparks, flames, or other sources of ignition.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m3) TWA	None	None
2-Propanol	200 ppm TWA 400 ppm STEL	400 ppm (980 mg/m3) TWA	None	None
2,2'-[(4-methylphenyl)imino]bisethanol	None	None	None	None
2-Mercaptobenzothiazole	None	None	5 mg/m3 TWA (SKIN) (Skin sensitizer)	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves. Recommended gloves include rubber and neoprene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Amber to yellowish
Odor: Acetone
Odor threshold: Not available
pH: Not available
Vapor pressure: 172 mm hg (20 °C (68°F))
Boiling point/range: Not available
Melting point/ range: Not available
Specific gravity: 0.7953
Vapor density: Not available
Flash point: -8 °C (17.6 °F) ; Estimated
Flammable/Explosive limits - lower: Not available
Flammable/Explosive limits - upper: Not available
Autoignition temperature: Not available
Evaporation rate: Not available
Solubility in water: fully miscible
Partition coefficient (n-octanol/water): Not available
VOC content: 13.3 %; 106 g/l EPA Method 24

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Irritating organic vapours. Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

Incompatible materials: Acids. Strong oxidizing agents.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acetone	No	No	No
2-Propanol	No	No	No
2,2'-[(4-methylphenyl)imino]bisethanol	No	No	No
2-Mercaptobenzothiazole	No	No	No

Hazardous components	Health Effects/Target Organs
Acetone	Blood, Central nervous system, Irritant, Reproductive
2-Propanol	Allergen, Blood, Brain, Central nervous system, Irritant, Kidney, Liver, Spleen
2,2'-[(4-methylphenyl)imino]bisethanol	Allergen
2-Mercaptobenzothiazole	Allergen, Kidney, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Flammable liquids, n.o.s. (Acetone, Isopropanol)
Hazard class or division: 3
Identification number: UN 1993
Packing group: II
Exceptions: ORM-D, (Not more than 1 L), Consumer Commodity

International Air Transportation (ICAO/IATA)

Proper shipping name: Flammable liquid, n.o.s. (Acetone, Isopropanol)
Hazard class or division: 3
Identification number: UN 1993
Packing group: II
Exceptions: (Not more than 500 ml), ID8000, May Qualify as Consumer Commodity

Water Transportation (IMO/IMDG)

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Acetone, Isopropanol)
Hazard class or division: 3
Identification number: UN 1993
Packing group: II
Exceptions: Limited quantity (Not more than 1 L).

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Delayed Health, Immediate Health, Fire
CERCLA/SARA 313: None above reporting de minimus
CERCLA Reportable quantity: Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: B.2, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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