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MSDS

**Common Name:** LOCTITE 242 THREADLOCKER MEDIUM STRENGTH, 24221**Manufacturer:** HENKEL**MSDS Revision Date:** 12/22/2010**Grainger Item Number(s):** 2A269, 3KE56, 4KL40, 5A228**Manufacturer Model Number(s):**

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LOCTITE (R\*)

MATERIAL SAFETY DATA SHEET

HENKEL

REVISION NUMBER: 005.5

ISSUE DATE: 12/22/2010

### 1. PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME: LOCTITE (R\*) 242 (TM) THREADLOCKER MEDIUM STRENGTH

PRODUCT TYPE: ANAEROBIC SEALANT

IDH NUMBER: 135354

ITEM NUMBER: 24221

REGION: UNITED STATES

COMPANY ADDRESS:  
HENKEL CORPORATION  
ONE HENKEL WAY  
ROCKY HILL, CONNECTICUT 06067

CONTACT INFORMATION:

TELEPHONE: 860.571.5100

MEDICAL EMERGENCY PHONE:

POISON CONTROL CENTER: 1-877-671-4608 (TOLL FREE) OR 1-303-592-1711

TRANSPORT EMERGENCY PHONE:

CHEMTREC: 1-800-424-9300 (TOLL FREE) OR 1-703-527-3887

INTERNET: WWW.HENKELNA.COM

## 2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

PHYSICAL STATE: LIQUID

COLOR: BLUE

ODOR: MILD

HMIS:

HEALTH 2\*

FLAMMABILITY 1

PHYSICAL HAZARD 1

PERSONAL PROTECTION SEE MSDS SECTION 8

WARNING:

CAUSES EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

RELEVANT ROUTES OF EXPOSURE: SKIN, INHALATION, EYES

POTENTIAL HEALTH EFFECTS:

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN CONTACT: MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION.

EYE CONTACT: CONTACT WITH EYES WILL CAUSE IRRITATION.

INGESTION: NOT EXPECTED TO BE HARMFUL BY INGESTION.

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

%

POLYGLYCOL DIMETHACRYLATE	25852-47-5	60 - 100
OLEIC ACID 5.5EO	9004-96-0	10 - 30
SACCHARIN	81-07-2	1 - 5
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	112945-52-5	1 - 5
CUMENE HYDROPEROXIDE	80-15-9	1 - 5
PROPANEDIOL-1,2	57-55-6	1 - 5
TITANIUM DIOXIDE	13463-67-7	0.1 - 1

#### 4. FIRST AID MEASURES



##### INHALATION:

MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.

##### SKIN CONTACT:

WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH CLOTHING BEFORE REUSE. IF SYMPTOMS DEVELOP AND PERSIST, GET MEDICAL ATTENTION.

##### EYE CONTACT:

FLUSH WITH COPIOUS AMOUNTS OF WATER, PREFERABLY, LUKEWARM WATER FOR AT LEAST 15 MINUTES, HOLDING EYELIDS OPEN ALL THE TIME. GET MEDICAL ATTENTION.

##### INGESTION:

DO NOT INDUCE VOMITING. KEEP INDIVIDUAL CALM. GET MEDICAL ATTENTION.

#### 5. FIRE FIGHTING MEASURES



FLASH POINT: >93.3 DEG. C (>199.94 DEG. F) TAGLIABUE CLOSED CUP

FLAME PROJECTION: NOT APPLICABLE

AUTOIGNITION TEMPERATURE: NOT DETERMINED

FLAMMABLE/EXPLOSIVE LIMITS - LOWER: 2.6% (PROPYLENE GLYCOL)

FLAMMABLE/EXPLOSIVE LIMITS - UPPER: 12.5% (PROPYLENE GLYCOL)

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIREFIGHTING PROCEDURES: NONE

UNUSUAL FIRE OR EXPLOSION HAZARDS: NONE

##### HAZARDOUS COMBUSTION PRODUCTS:

OXIDES OF CARBON. OXIDES OF SULFUR. OXIDES OF NITROGEN. IRRITATING ORGANIC VAPORS.

#### 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). 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.

#### STORAGE:

FOR SAFE STORAGE, STORE AT OR BELOW 38 DEG. C (100.4 DEG. F)  
KEEP IN A COOL, WELL VENTILATED AREA AWAY FROM HEAT, SPARKS AND OPEN FLAME.  
KEEP CONTAINER TIGHTLY CLOSED UNTIL READY FOR USE.

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
POLYGLYCOL DIMETHACRYLATE	NONE	NONE	NONE	NONE
OLEIC ACID 5.5EO	NONE	NONE	NONE	NONE
SACCHARIN	NONE	NONE	NONE	NONE
SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	10 MG/M3 TWA INHALABLE DUST.  3 MG/M3 TWA RESPIRABLE FRACTION.	20 MPPCF TWA 0.8 MG/M3 TWA	NONE	NONE
CUMENE HYDROPEROXIDE	NONE	NONE	1 PPM (6 MG/M3) TWA (SKIN)	NONE
PROPANEDIOL-1,2	NONE	NONE	10 MG/M3 TWA AEROSOL.	NONE
TITANIUM DIOXIDE	10 MG/M3 TWA	15 MG/M3 TWA TOTAL DUST.	NONE	NONE

#### ENGINEERING CONTROLS:

NO SPECIFIC VENTILATION REQUIREMENTS NOTED, BUT FORCED VENTILATION MAY STILL BE REQUIRED IF CONCENTRATIONS EXCEED OCCUPATIONAL 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:

USE IMPERMEABLE GLOVES AND PROTECTIVE CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. NEOPRENE GLOVES. BUTYL RUBBER GLOVES. NATURAL RUBBER GLOVES.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: LIQUID

COLOR: BLUE

ODOR: MILD

ODOR THRESHOLD: NOT AVAILABLE

pH: NOT APPLICABLE

VAPOR PRESSURE: <5 MMHg (27 DEG. C (80.6 DEG. F))

BOILING POINT/RANGE: >149 DEG. C (>300.2 DEG. F)

MELTING POINT/RANGE: NOT AVAILABLE

SPECIFIC GRAVITY: 1.1 AT 23.9 DEG. C (75.02 DEG. F)

VAPOR DENSITY: NOT AVAILABLE

FLASH POINT: >93.3 DEG. C (>199.94 DEG. F) TAGLIABUE CLOSED CUP

FLAME PROJECTION: NOT APPLICABLE

FLAMMABLE/EXPLOSIVE LIMITS - LOWER: 2.6% (PROPYLENE GLYCOL)

FLAMMABLE/EXPLOSIVE LIMITS - UPPER: 12.5% (PROPYLENE GLYCOL)

AUTOIGNITION TEMPERATURE: NOT DETERMINED

EVAPORATION RATE: NOT AVAILABLE

SOLUBILITY IN WATER: SLIGHT

PARTITION COEFFICIENT (n-OCTANOL/WATER): NOT AVAILABLE

VOC CONTENT: 4.48%; 49.3 G/L EPA METHOD 24

**10. STABILITY AND REACTIVITY**

STABILITY: STABLE

HAZARDOUS REACTIONS: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS:

OXIDES OF CARBON. OXIDES OF SULFUR. OXIDES OF NITROGEN. IRRITATING ORGANIC

## INCOMPATIBLE MATERIALS:

STRONG OXIDIZING AGENTS. FREE RADICAL INITIATORS. STRONG REDUCING AGENTS.  
ALKALIS. OXYGEN SCAVENGERS. OTHER POLYMERIZATION INITIATORS. COPPER. IRON.  
ZINC. ALUMINUM. RUST.

## CONDITIONS TO AVOID:

SEE "HANDLING AND STORAGE" (SECTION 7) AND "INCOMPATIBILITY" (SECTION 10).

**11. TOXICOLOGICAL INFORMATION**

## ACUTE ORAL PRODUCT TOXICITY:

LD50 (RAT): >10,000 MG/KG

## ACUTE DERMAL PRODUCT TOXICITY:

LD50 (RABBIT): >5,000 MG/KG

HAZARDOUS COMPONENTS	NTP CARCINOGEN	IARC CARCINOGEN	OSHA CARCINOGEN (SPECIFICALLY REGULATED)
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POLYGLYCOL DIMETHACRYLATE	NO	NO	NO
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OLEIC ACID 5.5EO	NO	NO	NO
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SACCHARIN	NO	NO	NO
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SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	NO	NO	NO
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CUMENE HYDROPEROXIDE	NO	NO	NO
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PROPANEDIOL-1,2	NO	NO	NO
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TITANIUM DIOXIDE	NO	GROUP 2B	NO
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HAZARDOUS COMPONENTS	HEALTH EFFECTS/TARGET ORGANS
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POLYGLYCOL DIMETHACRYLATE	IRRITANT, ALLERGEN
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OLEIC ACID 5.5EO	IRRITANT
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SACCHARIN	NO TARGET ORGANS
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SILICA, AMORPHOUS, FUMED, CRYSTAL-FREE	NUISANCE DUST
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CUMENE HYDROPEROXIDE	ALLERGEN, CENTRAL NERVOUS SYSTEM, CORROSIVE, IRRITANT, MUTAGEN
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PROPANEDIOL-1,2	IRRITANT
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TITANIUM DIOXIDE	IRRITANT, RESPIRATORY, SOME EVIDENCE OF CARCINOGENICITY
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**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: NOT A RCRA HAZARDOUS WASTE.

**14. TRANSPORT INFORMATION**

THE SHIPPING CLASSIFICATIONS IN THIS SECTIONS ARE FOR NON-BULK PACKAGING ONLY (UNLESS OTHERWISE SPECIFIED). SHIPPING CLASSIFICATION MAY BE DIFFERENT FOR BULK PACKAGING.

U.S. DEPARTMENT OF TRANSPORTATION GROUND (49 CFR):

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISION: NONE

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISION: NONE

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

WATER TRANSPORTATION (IMO/IMDG):

PROPER SHIPPING NAME: NOT REGULATED

HAZARD CLASS OR DIVISION: NONE

IDENTIFICATION NUMBER: NONE

PACKING GROUP: NONE

**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: IMMEDIATE HEALTH, DELAYED HEALTH

CERCLA/SARA 313:

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40 CFR 372). CUMENE HYDROPEROXIDE (CAS# 80-15-9).

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/NDL STATUS:

ALL COMPONENTS ARE LISTED ON OR ARE EXEMPT FROM LISTING ON THE CANADIAN DOMESTIC SUBSTANCES LIST.

WHMIS HAZARD CLASS: 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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