

 Close this window

LOCTITE

**Common Name:** LOCTITE FREEZE & RELEASE PART NO. 996456, 996456**Manufacturer:** HENKEL**MSDS Revision Date:** 5/6/2008**Grainger Item Number(s):** 3EPR5**Manufacturer Model Number(s):**

## MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

- [1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION](#)
- [2. COMPOSITION/INFORMATION ON INGREDIENTS](#)
- [3. HAZARDS IDENTIFICATION](#)
- [4. FIRST AID MEASURES](#)
- [5. FIRE-FIGHTING MEASURES](#)
- [6. ACCIDENTAL RELEASE MEASURES](#)
- [7. HANDLING AND STORAGE](#)
- [8. EXPOSURE CONTROLS / PERSONAL PROTECTION](#)
- [9. PHYSICAL AND CHEMICAL PROPERTIES](#)
- [10. STABILITY AND REACTIVITY](#)
- [11. TOXICOLOGICAL INFORMATION](#)
- [12. ECOLOGICAL INFORMATION](#)
- [13. DISPOSAL CONSIDERATIONS](#)
- [14. TRANSPORT INFORMATION](#)
- [15. REGULATORY INFORMATION](#)
- [16. OTHER INFORMATION](#)

LOCTITE (R\*)

MATERIAL SAFETY DATA SHEET

HENKEL TECHNOLOGIES

REVISION DATE: 05/06/2008

ISSUE DATE: 05/06/2008

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LOCTITE(R\*) FREEZE &amp; RELEASE PART NO. 996456

ITEM NO.: 996456 / IDH NO. 996456

PRODUCT TYPE: RUST DISSOLVER

REGION: UNITED STATES

COMPANY ADDRESS:

HENKEL CORPORATION  
1001 TROUT BROOK CROSSING  
ROCKY HILL, CONNECTICUT 06067

CONTACT INFORMATION:

TELEPHONE: 860.571.5100  
EMERGENCY TELEPHONE: 860.571.5100

INTERNET: WWW.LOCTITE.COM

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	%	ACGIH TLV	OSHA PEL	OTHER
1,1,1,2-TETRAFLUOROETHANE 811-97-2	30-60	NONE	NONE	AEL: 1000 PPM 8 & 12 HOUR TWA. WEEL 1000 PPM 8 & 12 HOUR TWA (AIHA), 1000 PPM TWA, (WEEL)
NAPHTHA, PETROLEUM, HYDROTREATED, LIGHT 64742-49-0	10-30	NONE	NONE	NONE
BUTANE 106-97-8	10-30	1000 PPM TWA	800 PPM TWA	NONE
KEROSENE 8008-20-6	5-10	200 MG/M3 TWA APPLICATION RESTRICTED TO CONDITIONS IN WHICH THERE ARE NEGLIGIBLE AEROSOL EXPOSURES (SKIN)	NONE	NONE
ISOBUTANE 75-28-5	1-5	1000 PPM TWA	NONE	NONE

## 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

PHYSICAL STATE: AEROSOL

COLOR: YELLOW

ODOR: CHARACTERISTIC

HMIS:

HEALTH 2  
FLAMMABILITY 4  
PHYSICAL HAZARD 1  
PERSONAL PROTECTION SEE SECTION 8

DANGER:

EXTREMELY FLAMMABLE.  
CONTENTS UNDER PRESSURE.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

RELEVANT ROUTES OF EXPOSURE: EYES, INHALATION, SKIN

POTENTIAL HEALTH EFFECTS:

INHALATION:

VAPOR OVEREXPOSURE MAY CAUSE DROWSINESS. PROLONGED OR EXCESSIVE INHALATION  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SKIN CONTACT: MILD SKIN IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN.

EYE CONTACT: MAY CAUSE IRRITATION.

INGESTION: NOT EXPECTED UNDER NORMAL CONDITIONS OF USE.

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NOT AVAILABLE

SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION.

#### 4. FIRST AID MEASURES

INHALATION:

REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP AND PERSIST, GET MEDICAL  
ATTENTION.

SKIN CONTACT:

WASH AFFECTED AREA IMMEDIATELY WITH SOAP AND WATER. GET MEDICAL ATTENTION  
IF SYMPTOMS DEVELOP AND PERSIST.

EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET  
MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING:

CONTAINS PETROLEUM DISTILLATES AND/OR AROMATIC SOLVENTS. ASPIRATION MAY  
CAUSE PULMONARY EDEMA AND PNEUMONITIS. GET MEDICAL ATTENTION IMMEDIATELY.

## 5. FIRE-FIGHTING MEASURES

FLASH POINT: -60 DEG. C (-75.8 DEG. F)

AUTOIGNITION TEMPERATURE: 510 DEG. C (949.7 DEG. F)

FLAMMABLE/EXPLOSIVE LIMITS-LOWER %: 1.4

FLAMMABLE/EXPLOSIVE LIMITS-UPPER %: 32

EXTINGUISHING MEDIA:

WATER SPRAY (FOG), FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

FIRE FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA). WATER SHOULD BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

DO NOT PUNCTURE OR INCINERATE PRESSURIZED CONTAINERS. CLOSED CONTAINERS MAY RUPTURE (DUE TO BUILD UP OF PRESSURE) WHEN EXPOSED TO EXTREME HEAT.

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON.

## 6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

PREVENT PRODUCT FROM ENTERING DRAINS OR OPEN WATERS.

CLEAN-UP METHODS:

WIPE UP WITH ADSORBENT MATERIAL (E.G. CLOTH, FLEECE). RINSE SPILL AREA WITH WATER. KEEP IN SUITABLE AND CLOSED CONTAINERS FOR DISPOSAL.

## 7. HANDLING AND STORAGE

HANDLING:

KEEP AWAY FROM HEAT, SPARK AND FLAME. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE MIST OR VAPORS.

STORAGE:

KEEP IN A COOL, WELL VENTILATED AREA. STORE AWAY FROM HEAT, SPARKS, FLAMES, OR OTHER SOURCES OF IGNITION. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER, AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST.

INCOMPATIBLE PRODUCTS: NONE.

FOR INFORMATION ON PRODUCT SHELF LIFE CONTACT HENKEL CUSTOMER SERVICE AT (800) 243-4874.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:**

LOCAL EXHAUST VENTILATION IS RECOMMENDED WHEN GENERAL VENTILATION IS NOT SUFFICIENT TO CONTROL AIRBORNE CONTAMINATION.

**RESPIRATORY PROTECTION:**

IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH. OBSERVE OSHA REGULATIONS FOR RESPIRATORY USE (29 CFR 1910.134).

SKIN PROTECTION: NEOPRENE OR OIL RESISTANT GLOVES

EYE/FACE PROTECTION: SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

SEE SECTION 2 FOR EXPOSURE LIMITS.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: AEROSOL

COLOR: YELLOW

ODOR: CHARACTERISTIC

VAPOR PRESSURE: NOT AVAILABLE

pH: NOT APPLICABLE

BOILING POINT/RANGE: NOT AVAILABLE

MELTING POINT/RANGE: NOT AVAILABLE

SPECIFIC GRAVITY: NOT AVAILABLE

VAPOR DENSITY: NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

SOLUBILITY IN WATER: INSOLUBLE.

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

VOC CONTENT: <50 %; 423G/L GRAMS/LITER

**10. STABILITY AND REACTIVITY**

STABILITY: STABLE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

INCOMPATIBILITY: OXIDIZING AGENTS.

CONDITIONS TO AVOID: EXTREMES OF TEMPERATURE AND DIRECT SUNLIGHT.

## 11. TOXICOLOGICAL INFORMATION

### CARCINOGEN STATUS:

HAZARDOUS COMPONENTS	NTP CARCINOGEN	IARC CARCINOGEN	OSHA CARCINOGEN
1,1,1,2-TETRAFLUOROETHANE 811-97-2	NO	NO	NO
NAPHTHA, PETROLEUM, HYDROTREATED, LIGHT 64742-49-0	NO	NO	NO
BUTANE 106-97-8	NO	NO	NO
KEROSENE 8008-20-6	NO	NO	NO
ISOBUTANE 75-28-5	NO	NO	NO

### LITERATURE REFERENCED TARGET ORGAN & OTHER HEALTH EFFECTS:

HAZARDOUS COMPONENTS	HEALTH EFFECTS/TARGET ORGANS
1,1,1,2-TETRAFLUOROETHANE 811-97-2	CARDIAC, CENTRAL NERVOUS SYSTEM, IRRITANT, RESPIRATORY, SKIN
NAPHTHA, PETROLEUM, HYDROTREATED, LIGHT 64742-49-0	IRRITANT, CENTRAL NERVOUS SYSTEM, KIDNEY, LUNG
BUTANE 106-97-8	CARDIAC, CENTRAL NERVOUS SYSTEM, IRRITANT
KEROSENE 8008-20-6	SPLEEN, LUNG, LIVER, KIDNEY, IRRITANT, CENTRAL NERVOUS SYSTEM, BONE MARROW, BLOOD
ISOBUTANE 75-28-5	CARDIAC, CENTRAL NERVOUS SYSTEM, LUNG

## 12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: TOXIC TO AQUATIC ORGANISMS.

## 13. DISPOSAL CONSIDERATIONS

INFORMATION PROVIDED IS FOR UNUSED PRODUCT ONLY.

**RECOMMENDED METHOD OF DISPOSAL:**

WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261. LEGAL DISPOSITION OF WASTES IS THE RESPONSIBILITY OF THE OWNER/GENERATOR OF THE WASTE. APPLICABLE FEDERAL, STATE AND/OR LOCAL REGULATIONS MUST BE FOLLOWED DURING TREATMENT, STORAGE, OR DISPOSAL OF WASTE CONTAINING THIS PRODUCT. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**EPA HAZARDOUS WASTE NUMBER:**

D001: IGNITABLE.

**14. TRANSPORT INFORMATION**

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

PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE

HAZARD CLASS OR DIVISION: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

**EXCEPTIONS:**

CONSUMER COMMODITY ORM-D (NOT MORE THAN 1 LITER)

DOT REPORTABLE QUANTITY (LBS):

ACETONE (CAS# 67-64-1) IS REPORTABLE AT 5000 POUNDS (2270 KG).

**INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA):**

PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE

HAZARD CLASS OR DIVISION: 2.1

IDENTIFICATION NUMBER: UN1950

PACKING GROUP: NONE

EXCEPTIONS: MAY QUALIFY AS CONSUMER COMMODITY ID8000 (NOT MORE THAN 500ML)

**WATER TRANSPORTATION (IMO/IMDG):**

PROPER SHIPPING NAME: AEROSOLS, FLAMMABLE

HAZARD CLASS OR DIVISION: 2.1

IDENTIFICATION NUMBER: UN 1950

PACKING GROUP: NONE

EXCEPTIONS: LIMITED QUANTITY (NOT MORE THAN 1 L)

MARINE POLLUTANT: 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.

CERCLA/SARA SECTION 302 EHS: NONE.

CERCLA/SARA SECTION 311/312: IMMEDIATE HEALTH HAZARD, FIRE, PRESSURE

CERCLA/SARA 313: NONE.

CALIFORNIA PROPOSITION 65:

NO CALIFORNIA PROPOSITION 65 LISTED CHEMICALS ARE KNOWN TO BE PRESENT.

CANADA REGULATORY INFORMATION:

CEPA DSL/NDL STATUS:

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

WHMIS HAZARD CLASS: A, B.2, D.2.B

## 16. OTHER INFORMATION

THIS MATERIAL SAFETY DATA SHEET CONTAINS CHANGES FROM THE PREVIOUS VERSION IN SECTIONS: FIRST ISSUE.

PREPARED BY: C.J. MICHAELS, MANAGER, REGULATORY AFFAIRS

DISCLAIMER:

THE DATA CONTAINED HEREIN ARE FURNISHED FOR INFORMATION ONLY AND ARE BELIEVED TO BE RELIABLE. HOWEVER, HENKEL CORPORATION DOES NOT ASSUME RESPONSIBILITY FOR ANY RESULTS OBTAINED BY PERSONS OVER WHOSE METHODS HENKEL CORPORATION HAS NO CONTROL. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF HENKEL'S PRODUCTS OR ANY PRODUCTION METHODS MENTIONED HEREIN FOR A PARTICULAR PURPOSE, AND TO ADOPT SUCH PRECAUTIONS AS MAY BE ADVISABLE FOR THE PROTECTION OF PROPERTY AND PERSONS AGAINST ANY HAZARDS THAT MAY BE INVOLVED IN THE HANDLING AND USE OF ANY OF HENKEL CORPORATION'S PRODUCTS. IN LIGHT OF THE FOREGOING, HENKEL CORPORATION SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARISING FROM SALE OR USE OF HENKEL CORPORATION'S PRODUCTS. HENKEL CORPORATION FURTHER DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST PROFITS.