

**Revision Date:** 06/07/2007

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name:</b> LOCTITE® FREEZE & RELEASE Part No. 996456 <b>Product type:</b> Rust Dissolver <b>Company address:</b> Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	<b>Item No. :</b> 996456 / IDH No. 996456 <b>Region:</b> United States <b>Contact Information:</b> Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
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/m <sup>3</sup> 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

<b>Physical state:</b> Aerosol <b>Color:</b> Yellow <b>Odor:</b> Characteristic	<b>HMIS:</b> <b>HEALTH:</b> 2 <b>FLAMMABILITY:</b> 4 <b>PHYSICAL HAZARD:</b> 1 <b>Personal Protection:</b> See Section 8
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**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

<b>Inhalation:</b>	Vapor overexposure may cause drowsiness. Prolonged or excessive inhalation may cause respiratory tract irritation.
<b>Skin contact:</b>	Mild skin irritation. Harmful if absorbed through skin.
<b>Eye contact:</b>	May cause irritation.
<b>Ingestion:</b>	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

<b>Inhalation:</b>	Remove to fresh air. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Wash affected area immediately with soap and water. Get medical attention if symptoms develop and persist.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	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

<b>Flash point:</b>	-60°C (-75.8°F)
<b>Autoignition temperature:</b>	510°C (949.7°F)
<b>Flammable/Explosive limits-lower %:</b>	1.4
<b>Flammable/Explosive limits-upper %:</b>	32
<b>Extinguishing media:</b>	Water spray (fog), foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	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.
<b>Unusual fire or explosion hazards:</b>	Do not puncture or incinerate pressurized containers. Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
<b>Hazardous combustion products:</b>	Oxides of carbon.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Environmental precautions:</b>	Prevent product from entering drains or open waters.
<b>Clean-up methods:</b>	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

<b>Handling:</b>	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors.
<b>Storage:</b>	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.
<b>Incompatible products:</b>	None.

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

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.
<b>Respiratory protection:</b>	When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Aerosol
<b>Color:</b>	Yellow
<b>Odor:</b>	Characteristic
<b>Vapor pressure:</b>	Not available
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	<50 %; 423g/L grams/liter

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Hazardous polymerization:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	Carbon oxides.
<b>Incompatibility:</b>	Oxidizing agents.
<b>Conditions to avoid:</b>	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

<b>Ecological information:</b>	Toxic to aquatic organisms.
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### 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)

#### WaterTransportation (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/NDSL 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

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