



Revision Number: 002.1

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**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name:</b>	<b>LOCTITE® All Purpose Spray Adhesive</b>	<b>IDH number:</b>	234933
<b>Product type:</b>	Adhesive	<b>Item number:</b>	30544
		<b>Region:</b>	United States
<b>Company address:</b>	<b>Contact information:</b>		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	Emergency telephone: 860.571.5100		
Rocky Hill, Connecticut 06067	Internet: www.henkelna.com		

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Liquid, Aerosol	<b>HEALTH:</b>	*2
<b>Color:</b>	Milky, White	<b>FLAMMABILITY:</b>	4
<b>Odor:</b>	Solvent	<b>PHYSICAL HAZARD:</b>	2
		<b>Personal Protection:</b>	See MSDS Section 8

**DANGER:** EXTREMELY FLAMMABLE.  
 CONTENTS UNDER PRESSURE.  
 MAY BE HARMFUL OR FATAL IF SWALLOWED OR INHALED.  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

**Relevant routes of exposure:** Skin, Inhalation, Eyes

**Potential Health Effects**

**Inhalation:** May cause respiratory tract irritation. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Overexposure may cause nervous system depression.

**Skin contact:** Causes skin irritation. Itching. Redness. Burning sensation.

**Eye contact:** Direct spray or vapors will irritate and may harm eyes.

**Ingestion:** Not expected under normal conditions of use. Do not taste or swallow. May be harmful or fatal if swallowed.

**Existing conditions aggravated by exposure:** None generally recognized.

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	%
n-Heptane	142-82-5	30 - 60
Butane	106-97-8	10 - 30
Acetone	67-64-1	10 - 30
Styrene Polymer with 1,3-Butadiene	9003-55-8	10 - 30
Propane	74-98-6	5 - 10
Toluene	108-88-3	0 - 0.1
Benzene	71-43-2	0 - 0.1
Formaldehyde	50-00-0	0 - 0.1
Acetaldehyde	75-07-0	0 - 0.1

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. If skin irritation persists, call a physician.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	Rinse mouth, do not induce vomiting, consult a doctor. Never give anything by mouth to an unconscious person.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	Extremely Flammable.
<b>Flashback:</b>	This product exhibits flashback when tested for flame extension.
<b>Flame projection:</b>	45.72 cm (18inch)
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	1.1 %
<b>Flammable/Explosive limits - upper:</b>	12.8 %
<b>Extinguishing media:</b>	Carbon dioxide. Dry chemical. Foam.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water spray may be ineffective. 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>	Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.
<b>Hazardous combustion products:</b>	Oxides of carbon.

#### 6. ACCIDENTAL RELEASE MEASURES

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

<b>Environmental precautions:</b>	Do not allow material to contaminate ground water system.
<b>Clean-up methods:</b>	Remove all sources of ignition. Ventilate area. 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

<b>Handling:</b>	Keep away from heat, spark and flame. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Vapors will accumulate readily and may ignite explosively. Use only with adequate ventilation. 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.
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**Storage:**

Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F). Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Store away from ignition sources.

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
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) TWA	None	None
Butane	None	None	None	None
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m3) TWA	None	None
Styrene Polymer with 1,3-Butadiene	None	None	None	None
Propane	1,000 ppm TWA	1,000 ppm (1,800 mg/m3) TWA	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Benzene	0.5 ppm TWA 2.5 ppm STEL (SKIN)	1 ppm TWA 5 ppm STEL 0.5 ppm OSHA ACT 10 ppm TWA 25 ppm Ceiling 50 ppm MAX. CONC 10 minutes 29 CFR 1910.1028	None	None
Formaldehyde	0.3 ppm Ceiling (Sensitizer.)	29 CFR 1910.1048 0.75 ppm TWA 2 ppm STEL 0.5 ppm OSHA ACT	None	None
Acetaldehyde	25 ppm Ceiling	200 ppm (360 mg/m3) TWA	None	None

**Engineering controls:**

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

**Respiratory protection:**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH.

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**Skin protection:**

Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Liquid, Aerosol

**Color:**

Milky, White

**Odor:**

Solvent

**Odor threshold:**

Not available

**pH:**

Not available

**Vapor pressure:**

Not available

**Boiling point/range:**

-18 - 100 °C (0.4 - 212°F)

**Melting point/ range:**

Not available

**Specific gravity:**

0.65

**Vapor density:** Heavier than air.  
**Flash point:** Extremely Flammable.  
**Flashback:** This product exhibits flashback when tested for flame extension.  
**Flame projection:** 45.72 cm (18inch)  
**Flammable/Explosive limits - lower:** 1.1 %  
**Flammable/Explosive limits - upper:** 12.8 %  
**Autoignition temperature:** Not available  
**Evaporation rate:** Faster than ether.  
**Solubility in water:** Not available  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 64.88 %; 421 g/l

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Hazardous reactions:** Will not occur.  
**Hazardous decomposition products:** Oxides of carbon.  
**Incompatible materials:** None known  
**Conditions to avoid:** High temperatures.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
n-Heptane	No	No	No
Butane	No	No	No
Acetone	No	No	No
Styrene Polymer with 1,3-Butadiene	No	No	No
Propane	No	No	No
Toluene	No	No	No
Benzene	Known carcinogen.	Group 1	Yes
Formaldehyde	Anticipated carcinogen.	Group 1	Yes
Acetaldehyde	Anticipated carcinogen.	Group 2B	No

Hazardous components	Health Effects/Target Organs
n-Heptane	Central nervous system, Irritant
Butane	Cardiac, Central nervous system, Irritant
Acetone	Blood, Central nervous system, Irritant, Reproductive
Styrene Polymer with 1,3-Butadiene	No Target Organs
Propane	Cardiac, Central nervous system, Irritant
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Benzene	Blood, Bone Marrow, Carcinogen, Immune system, Irritant, Mutagen, Nervous System
Formaldehyde	Allergen, Behavioral, Central nervous system, Irritant, Liver, Metabolic, Mutagen, Reproductive, Respiratory, Some evidence of carcinogenicity
Acetaldehyde	Allergen, Central nervous system, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity, Less weight gain and food intake.

## 12. ECOLOGICAL INFORMATION

**Ecological information:**

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 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:** Aerosols  
**Hazard class or division:** 2.1  
**Identification number:** UN 1950  
**Packing group:** None  
**Exceptions:** Consumer Commodity, ORM-D, (Not more than 1 L)

**International Air Transportation (ICAO/IATA)**

**Proper shipping name:** Aerosols, flammable  
**Hazard class or division:** 2.1  
**Identification number:** UN 1950  
**Packing group:** None  
**Exceptions:** ID8000, (Not more than 500 ml), May Qualify as Consumer Commodity

**Water Transportation (IMO/IMDG)**

**Proper shipping name:** AEROSOLS  
**Hazard class or division:** 2.1  
**Identification number:** UN 1950  
**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:** N-Heptane (CAS# 142-82-5).

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Fire, Sudden Release, Immediate Health, Delayed Health

**CERCLA/SARA 313:** None above reporting de minimus  
**CERCLA Reportable quantity:** Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg)  
Propane (CAS# 74-98-6) 100 lbs. (45.4 kg)  
Benzene (CAS# 71-43-2) 10 lbs. (4.54 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:** A, B.5, 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.

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