Material Safety Data Sheet

Revision Date: 01/19/2007 **Issue date:** 01/19/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Contact Adhesive
Product type: Adhesive
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 30537 / IDH No. 234923
Region: United States
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
Acetone 67-64-1	10-30	500 ppm TWA 750 ppm STEL	1000 ppm TWA 2400 mg/m³ TWA	None
Methyl ethyl ketone 78-93-3	10-30	200 ppm TWA 300 ppm STEL	200 ppm TWA 590 mg/m³ TWA	None
n-Hexane 110-54-3	10-30	50 ppm TWA 500 ppm TWA other than n-Hexane 1000 ppm STEL other than n-Hexane (skin)	1800 mg/m³ TWA 500 ppm TWA	None
Toluene 108-88-3	10-30	50 ppm TWA (skin)	200 ppm TWA 300 ppm Ceiling	None
Magnesium oxide 1309-48-4	1-5	10 mg/m^3 TWA	15 mg/m³ TWA total particulate	None
Silica, amorphous, fumed, crystalline-free 112945-52-5	1-5	10 mg/m^3 TWA inhalable 3 mg/m^3 TWA respirable	6 mg/m^3 TWA	None
Solvent yellow 3 97-56-3	0.1-1	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid
Color: Yellow
Odor: Solvent

HEALTH: 2*
FLAMMABILITY: 3
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: EXTREMELY FLAMMABLE.
HARMFUL OR FATAL IF SWALLOWED.
HARMFUL IF INHALED.

Relevant routes of exposure: Eye contact, Skin contact, Inhalation, Ingestion

Potential Health Effects

Inhalation:	Symptoms are typically seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include, nasal and respiratory irritation (nose, throat, and lung) - pre-existing lung disorder, e.g. asthma-like conditions, may be aggravated by exposure to this material. Symptoms also include central nervous system depression, dizziness, drowsiness, weakness, fatigue, nausea, headache, possible unconsciousness, coma and even death.
Skin contact:	Mild skin irritation. Repeated or prolonged contact can result in drying of skin. Symptoms may include redness, burning, drying, cracking and skin burns. Pre-existing skin disorders may be aggravated by exposure to this material. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.
Eye contact:	Mild eye irritation. Burning sensation. Redness. Excess tearing. Stinging. Blurred vision.
Ingestion:	Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.
Existing conditions aggravated by exposure:	Eye, skin, and respiratory disorders. Asthma. Liver disorders. Kidney disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If discomfort persists seek medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Skin contact:	Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). If symptoms persist, obtain medical attention. Wash clothing before reuse.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	-24°C (-10°F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	1.0 %
Flammable/Explosive limits-upper %:	12.6 %
Extinguishing media:	Carbon dioxide (CO2). Foam. Dry chemical.
Special fire fighting procedures:	Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
Unusual fire or explosion hazards:	Sudden release of hot organic cheimical vapors or mist from process equipment operated at elevated temperatures and pressure or sudden ingress of air into vaccum equipment may result in ignitions without the presence of obvious ignition sources. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a significanltly high level, sparks can form that may ignite vapors of flammable liquids.
Hazardous combustion products:	Irritating organic vapors. Oxides of carbon. Hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent product from entering the drains.
Clean-up methods:	Remove all ignition sources. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain the spill in a closed container until disposal.

7. HANDLING AND STORAGE

Handling: Keep container closed. Keep away from heat, spark and flame. Avoid contact with skin and eyes. Do not breathe mist or vapors.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store at or below 49°C (120°F). Ground and bond metal containers for liquid transfer to avoid static sparks.

Incompatible products: Oxidizing agents. Acids.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Respiratory protection: Use a NIOSH approved supplied air respirator if the potential to exceed established exposure limits exists.

Skin protection: Chemical resistant, impermeable gloves. Because a variety of protective gloves exist, consult manufacturer to determine the proper type for a specific operation.

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

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Yellow
Odor:	Solvent
Vapor pressure:	181 mmHg @20°C (68° F)
pH:	Not applicable
Boiling point/range:	56°C (133°F)
Melting point/range:	Not available
Specific gravity:	0.91
Vapor density:	2.68
Evaporation rate:	14.4 (Butyl acetate = 1)
Solubility in water:	Negligible.
Partition coefficient (n-octanol/water):	Not available
VOC content:	47.40%; 430 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: None

Incompatability: Oxidizing agents. Acids.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Product toxicity data: This material has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animals. The relevance to these findings to humans is uncertain.

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Acetone 67-64-1	No	No	No
Methyl ethyl ketone 78-93-3	No	No	No
n-Hexane 110-54-3	No	No	No
Toluene 108-88-3	No	No	No
Magnesium oxide 1309-48-4	No	No	No
Silica, amorphous, fumed, crystalline-free 112945-52-5	No	No	No
Solvent yellow 3 97-56-3	Suspect Carcinogen	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Acetone 67-64-1	Blood, Central nervous system, Irritant, Reproductive
Methyl ethyl ketone 78-93-3	Central nervous system, Irritant
n-Hexane 110-54-3	Developmental, Irritant, Lung, Nervous System, Reproductive
Toluene 108-88-3	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Magnesium oxide 1309-48-4	Blood, Central nervous system, Immune system, Irritant
Silica, amorphous, fumed, crystalline-free 112945-52-5	Nuisance dust
Solvent yellow 3 97-56-3	Mutagen, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information: Not known

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

The shipping classifications in this section 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: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: (Not more than 5L) Consumer Commodity ORM-D
DOT reportable quantity (lbs): Methyl ethyl ketone is reportable at 5000 pounds (2270 kg). Acetone (CAS# 67-64-1) is reportable at 5000 pounds (2270 kg). Therefore this product has an RQ of 23,447 pounds.

International Air Transportation (ICAO/IATA):

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN1133
Packing group: II
Exceptions: (Not more than 500 ml) May Qualify as Consumer Commodity ID8000

WaterTransportation (IMO/IMDG):

Proper shipping name:	Adhesives
Hazard class or division:	3
Identification number:	UN1133
Packing group:	II
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 5 (a) (2) SNUR:	None.
TSCA 12 (b) Export Notification:	None.
CERCLA/SARA Section 302 EHS:	None.
CERCLA/SARA Section 311/312:	Fire, Immediate Health Hazard, Delayed Health Hazard
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). Toluene (CAS# 108-88-3). n-Hexane (CAS# 110-54-3). o-Aminoazotoluene (CAS# 97-56-3).
California Proposition 65:	This product contains a chemical known to the State of California to cause cancer and 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 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: This material safety data sheet contains changes from the previous version in section(s): 2,15

Prepared by: Regulatory Affairs

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