



Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite(R) Contact Adhesive	IDH number:	234923
Product type:	Adhesive	Item number:	30537
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	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	HEALTH:	*2
Color:	yellow	FLAMMABILITY:	3
Odor:	Solvent	PHYSICAL HAZARD:	0
		Personal Protection:	See MSDS Section 8
DANGER:	HARMFUL IF INHALED. HARMFUL OR FATAL IF SWALLOWED. EXTREMELY FLAMMABLE.		

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

Potential Health Effects

Inhalation:	Symptoms are typically seen at air concentrations exceeding the recommended exposure limits.
Skin contact:	Mild skin irritation. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use. Pre-existing skin disorders may be aggravated by exposure to this material. Repeated or prolonged contact can result in drying of skin. Symptoms may include redness, burning, drying, cracking and skin burns.
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.

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	%
Methyl ethyl ketone	78-93-3	10 - 30
Acetone	67-64-1	10 - 30
Toluene	108-88-3	10 - 30
n-Hexane	110-54-3	10 - 30
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Magnesium oxide	1309-48-4	1 - 5
Zinc oxide	1314-13-2	0.1 - 1
C.I. Solvent Yellow 3	97-56-3	0.1 - 1

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Flash point:	-24 °C (-11.2 °F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	1 %
Flammable/Explosive limits - upper:	12.6 %
Extinguishing media:	Dry chemical. foam Carbon dioxide.
Special firefighting 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:	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 significantly high level, sparks can form that may ignite vapors of flammable liquids. Sudden release of hot organic chemical vapors or mist from process equipment operated at elevated temperatures and pressures or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources.
Hazardous combustion products:	Oxides of carbon. Irritating organic vapours. Hydrocarbons.

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:

Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Store in a partly filled, closed container until disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling:

Do not breathe gas/fumes/vapor/spray. Avoid skin and eye contact. Keep away from heat, spark and flame. Keep container closed.

Storage:

For safe storage, store between 0 °C (32°F) and 49 °C (120.2 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Ground and bond metal containers for liquid transfer to avoid static sparks.

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
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m ³) TWA	None	None
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m ³) TWA	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
n-Hexane	(SKIN) 50 ppm TWA	500 ppm (1,800 mg/m ³) TWA	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m ³ TWA	None	None
Magnesium oxide	10 mg/m ³ TWA Inhalable fraction.	15 mg/m ³ TWA Total particulate.	None	None
Zinc oxide	2 mg/m ³ TWA Respirable fraction. 10 mg/m ³ STEL Respirable fraction.	5 mg/m ³ TWA Fume. 5 mg/m ³ TWA Respirable fraction. 15 mg/m ³ TWA Total dust.	None	None
C.I. Solvent Yellow 3	None	None	None	None

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.

Eye/face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:
Color:

Liquid
yellow

Odor:	Solvent
Odor threshold:	Not available
pH:	Not applicable
Vapor pressure:	181 mm hg (20 °C (68°F))
Boiling point/range:	56 °C (132.8 °F)
Melting point/ range:	Not available
Specific gravity:	0.91
Vapor density:	2.68
Flash point:	-24 °C (-11.2 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	1 %
Flammable/Explosive limits - upper:	12.6 %
Autoignition temperature:	Not available
Evaporation rate:	14.4 (Butyl acetate = 1)
Solubility in water:	Negligible
Partition coefficient (n-octanol/water):	Not available
VOC content:	47.4 %; 430 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	None
Incompatible materials:	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.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl ethyl ketone	No	No	No
Acetone	No	No	No
Toluene	No	No	No
n-Hexane	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Magnesium oxide	No	No	No
Zinc oxide	No	No	No
C.I. Solvent Yellow 3	Anticipated carcinogen.	Group 2B	No

Hazardous components	Health Effects/Target Organs
Methyl ethyl ketone	Irritant, Central nervous system
Acetone	Blood, Central nervous system, Irritant, Reproductive
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
n-Hexane	Developmental, Irritant, Lung, Nervous System, Reproductive
Silica, amorphous, fumed, crystal-free	Nuisance dust
Magnesium oxide	Blood, Central nervous system, Immune system, Irritant
Zinc oxide	Blood, Gastrointestinal, Immune system, Irritant, Kidney, Metabolic, Nervous System, Pancreas, Respiratory, Skin
C.I. Solvent Yellow 3	Mutagen, Some evidence of carcinogenicity

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: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Reportable quantity: Toluene, Methyl ethyl ketone
Exceptions: Consumer Commodity, ORM-D, (Not more than 5 L)

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
Exceptions: (Not more than 500 ml), May Qualify as Consumer Commodity, ID8000

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

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: Fire, 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). Methyl ethyl ketone (CAS# 78-93-3). Toluene (CAS# 108-88-3). n-Hexane (CAS# 110-54-3). C.I. Solvent Yellow 3 (CAS# 97-56-3).

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: D.2.A, D.2.B, B.2

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: For Safety and Regulatory information contact: Regulatory Affairs Rocky Hill, CT 860-571-5204

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