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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) Multi-Purpose Glass Cleaner	Item No. : 30546 / IDH No. 234937
Product type: Cleaner	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

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Water 7732-18-5	60-100	None	None	None
Isopropyl alcohol 67-63-0	5-10	200 ppm TWA 400 ppm STEL	400 ppm TWA 980 mg/m³ TWA	None
2-Propanol,1-(1,1-dimethylethoxy)- 57018-52-7	5-10	None	None	None
Isobutane 75-28-5	1-5	1000 ppm TWA listed under Aliphatic hydrocarbon gases alkane C1-C4	None	None
d-Limonene 8008-57-9	1-5	None	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Aerosol Liquid
Color: Clear
Odor: Solvent

HMIS:

HEALTH: 2*
FLAMMABILITY: 4
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

DANGER: EXTREMELY FLAMMABLE.
CONTENTS UNDER PRESSURE.
HARMFUL IF SWALLOWED OR INHALED.

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

Potential Health Effects

Inhalation: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritation of eyes, skin and respiratory system. Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Overexposure may cause nervous system depression. Methyl Ethyl Ketone may increase the nervous system effects of other solvents. Continued exposure may cause increased light-headedness, staggering, unconsciousness and even death. Prolonged overexposure to solvent ingredients in section 2 may cause adverse effects to the liver, urinary, and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Skin contact: Irritating to skin. Itching. Redness. Burning sensation.

Eye contact: Moderate eye irritation. Redness. Burning sensation.

Ingestion: May be harmful if swallowed. Extreme overexposure may result in unconsciousness and possibly death.

Existing conditions aggravated by exposure:

None generally recognized.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. If skin irritation persists, call a physician.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion:	Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flash point:	Value for propellant -156°C (-26°F) Flame Extension: Greater than -156 cms (-26 inches) This product exhibits flashback when tested for flame extension.
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	1.0 %
Flammable/Explosive limits-upper %:	12.7 %
Extinguishing media:	Carbon dioxide (CO2). Dry chemical. Foam.
Special fire fighting procedures:	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.
Unusual fire or explosion hazards:	Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat.
Hazardous combustion products:	Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	Remove all ignition sources. Ventilate area. Soak up with inert absorbent. Store in a closed container until ready for disposal.

7. HANDLING AND STORAGE

Handling:	Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Avoid breathing 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.
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.
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 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. When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH for dust which may be generated from this product, underlying paint, or the abrasive.

Skin protection: Chemical resistant, impermeable 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 Liquid
Color: Clear
Odor: Solvent
Vapor pressure: Not available
pH: Not available
Boiling point/range: -18-82°C (0-181°F)
Melting point/range: Not available
Specific gravity: .678
Vapor density: Greater than 1
Evaporation rate: Not determined
Solubility in water: Soluble.
Partition coefficient (n-octanol/water): Not available
VOC content: 100%; 678 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: None

Incompatibility: None

Conditions to avoid: None known.

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Water 7732-18-5	No	No	No
Isopropyl alcohol 67-63-0	No	No	No
2-Propanol,1-(1,1-dimethylethoxy)- 57018-52-7	No	No	No
Isobutane 75-28-5	No	No	No
d-Limonene 8008-57-9	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Water 7732-18-5	No Target Organs
Isopropyl alcohol 67-63-0	Allergen, Blood, Central nervous system, Irritant, Kidney, Liver, Brain, Spleen
2-Propanol,1-(1,1-dimethylethoxy)- 57018-52-7	No Target Organs
Isobutane 75-28-5	Cardiac, Central nervous system, Lung
d-Limonene 8008-57-9	Irritant

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, groundwater, 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:

Dispose of in accordance with Federal, State and local regulations.

EPA hazardous waste number:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

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

International Air Transportation (ICAO/IATA):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
Exceptions: (Not more than 500 ml) May Qualify as Consumer Commodity ID8000

Water Transportation (IMO/IMDG):

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN1950
Packing group: None
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:	Fire, Immediate Health Hazard, Sudden Release, 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). n-Hexane (CAS# 110-54-3).
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:	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.

Prepared by: Regulatory Affairs

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