



Revision Number: 002.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE 5012 201GM CN EN	IDH number:	1802776
Product type:	Solvent-based sealants	Item number:	1802776
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: +1 (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

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.
CAUSES SKIN IRRITATION.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE DROWSINESS OR DIZZINESS.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
SKIN IRRITATION	2
EYE IRRITATION	2A
REPRODUCTIVE TOXICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2
ASPIRATION HAZARD	1

PICTOGRAM(S)



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye and face protection.

Response: IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Solvent naphtha (petroleum), light aliph., <0.1% benzene	64742-89-8	10 - 20
n-Hexane	110-54-3	10 - 20
Toluene	108-88-3	10 - 20
Methyl ethyl ketone	78-93-3	10 - 20
Formaldehyde, polymer with 4-(1,1-dimethylethyl)p	54579-44-1	5 - 10
Acetone	67-64-1	1 - 5
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) e	6422-86-2	1 - 5
Rosin, polymer with phenol	68083-03-4	1 - 5

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical. foam Carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. 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. Aldehydes.

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.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Solvent naphtha (petroleum), light aliph., <0.1% benzene	None	100 ppm (400 mg/m ³) PEL	None	None
n-Hexane	50 ppm TWA (SKIN)	500 ppm (1,800 mg/m ³) PEL	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m ³) PEL	None	None
Formaldehyde, polymer with 4-(1,1-dimethylethyl)p	None	None	None	None
Acetone	250 ppm TWA 500 ppm STEL	1,000 ppm (2,400 mg/m ³) PEL	None	None
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) e	None	None	None	None
Rosin, polymer with phenol	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:	Viscous
Color:	Green
Odor:	Solvent
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	181 mm hg (20 °C (68°F))
Boiling point/range:	68 °C (154.4 °F)
Melting point/ range:	Not available.
Specific gravity:	0.865
Vapor density:	Not available.
Flash point:	-26 °C (-14.8 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Greater than butyl acetate., (Butyl acetate = 1)
Solubility in water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	65 % (by weight) (estimated)
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Irritating vapors. Hydrocarbons. Aldehydes.
Incompatible materials:	Oxidizing agents. Acids.
Reactivity:	Not available.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	Harmful if inhaled. Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness. Prolonged or excessive inhalation may cause respiratory tract irritation.
Skin contact:	Causes skin irritation. Pre-existing skin disorders may be aggravated by exposure to this material. Repeated or prolonged contact can result in drying of skin.
Eye contact:	Causes serious eye irritation. Burning sensation. Redness. Excess tearing. Stinging. Blurred vision.
Ingestion:	Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis. May cause central nervous system depression. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Solvent naphtha (petroleum), light aliph., <0.1% benzene	None	Irritant
n-Hexane	Oral LD50 (Rat) = 28,710 mg/kg Dermal LD50 (Rabbit) = > 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = 73860 ppm	Developmental, Irritant, Lung, Nervous System, Reproductive
Toluene	Oral LD50 (Rat) = 2.6 g/kg Oral LD50 (Rat) = 5,000 mg/kg Dermal LD50 (Rabbit) = 12,124 mg/kg Inhalation LC50 (Rat, 4 h) = 8000 ppm	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Methyl ethyl ketone	Oral LD50 (Mouse) = 670 mg/kg Oral LD50 (Rat) = 2,300 - 3,500 mg/kg Oral LD50 (Rat) = 4,500 - 6,800 mg/kg Dermal LD50 (Rabbit) = > 8,000 mg/kg Inhalation LC50 (Rat, 4 h) = 11700 ppm	Irritant, Central nervous system
Formaldehyde, polymer with 4-(1,1-dimethylethyl)p	None	Irritant, Allergen
Acetone	Oral LD50 (Mouse) = 5.2 g/kg Oral LD50 (Mouse) = 3,000 mg/kg Oral LD50 (Rabbit) = 5,340 mg/kg Oral LD50 (Rat) = 5,800 mg/kg Oral LD50 (Rat) = 9,800 mg/kg Dermal LD50 (Rabbit) = 20,000 mg/kg Inhalation LC50 (Rat, 4 h) = 76 mg/l	Central nervous system, Irritant
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) e	None	Irritant, Central nervous system
Rosin, polymer with phenol	None	Allergen, Corrosive, Irritant, Respiratory, Skin

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Solvent naphtha (petroleum), light aliph., <0.1% benzene	No	No	No
n-Hexane	No	No	No
Toluene	No	No	No
Methyl ethyl ketone	No	No	No
Formaldehyde, polymer with 4-(1,1-dimethylethyl)p	No	No	No
Acetone	No	No	No
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) e	No	No	No
Rosin, polymer with phenol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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. D035: Methyl Ethyl Ketone.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

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

International Air Transportation (ICAO/IATA)

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

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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Fire, Immediate Health, Delayed Health
CERCLA/SARA Section 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). Toluene (CAS# 108-88-3). Methyl ethyl ketone (CAS# 78-93-3).

CERCLA Reportable quantity: n-Hexane (CAS# 110-54-3) 5,000 lbs. (2,270 kg)
Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg)
Methyl ethyl ketone (CAS# 78-93-3) 5,000 lbs. (2,270 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/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2, 3, 10

Prepared by: Product Safety and Regulatory Affairs

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