



Revision Number: 005.0

Issue date: 11/05/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE M 2012RS E&C known as M-2012RS
IDH number: 1263361
Product type/use: Ink
Restriction of Use: None identified
Region: United States
Company address:
 Henkel Corporation
 One Henkel Way
 Rocky Hill, Connecticut 06067
Contact information:
 Telephone: +1 (860) 571-5100
 MEDICAL EMERGENCY Phone: Poison Control Center
 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: COMBUSTIBLE LIQUID.
 HARMFUL IN CONTACT WITH SKIN OR IF INHALED.
 CAUSES SKIN IRRITATION.
 MAY CAUSE AN ALLERGIC SKIN REACTION.
 CAUSES SERIOUS EYE DAMAGE.
 MAY CAUSE RESPIRATORY IRRITATION.
 SUSPECTED OF CAUSING GENETIC DEFECTS.
 CAUSES DAMAGE TO ORGANS.
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR
 REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
ACUTE TOXICITY INHALATION	4
ACUTE TOXICITY DERMAL	4
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
GERM CELL MUTAGENICITY	2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	1
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

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. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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: Call a poison center or physician. If skin irritation or rash occurs: 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*
Phenol formaldehyde resin	Proprietary	10 - 30
Diethylene glycol monobutyl ether	112-34-5	10 - 30
Methanol	67-56-1	10 - 30
Carbon black	1333-86-4	10 - 30
Graphite	7782-42-5	5 - 10
Synthetic resin	Proprietary	5 - 10
Butoxyethyl acetate	112-07-2	1 - 5
Talc	14807-96-6	1 - 5
Phenol	108-95-2	1 - 5
Diethyleneglycol monoethyl ether	111-90-0	1 - 5
m-xylene	108-38-3	1 - 5
Vinyl Resin	Proprietary	1 - 5
n-Butyl alcohol	71-36-3	0.1 - 1
2-Butoxyethanol	111-76-2	0.1 - 1

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

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Toxic and irritating vapors.

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: Eliminate ignition sources including sources of electrical, static or frictional sparks. Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Ensure adequate ventilation. Isolate area. Keep unnecessary personnel away. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: 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. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Keep away from heat, spark and flame. Protect from direct sunlight.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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
Phenol formaldehyde resin	None	None	None	None
Diethylene glycol monobutyl ether	10 ppm TWA Inhalable fraction and vapor.	None	None	50 ppm TWA 75 ppm STEL
Methanol	200 ppm TWA (SKIN) 250 ppm STEL	200 ppm (260 mg/m3) PEL	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None
Graphite	2 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Synthetic resin	None	None	None	None
Butoxyethyl acetate	20 ppm TWA	None	None	None
Talc	2 mg/m3 TWA Respirable fraction.	0.1 mg/m3 TWA Respirable. 2.4 MPPCF TWA Respirable. 20 MPPCF TWA	None	50 ppm
Phenol	5 ppm TWA (SKIN)	5 ppm (19 mg/m3) PEL (SKIN)	None	None
Diethyleneglycol monoethyl ether	None	None	25 ppm (140 mg/m3) TWA	None
m-xylene	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) PEL	None	None
Vinyl Resin	None	None	None	None
n-Butyl alcohol	20 ppm TWA	100 ppm (300 mg/m3) PEL	None	None
2-Butoxyethanol	20 ppm TWA	50 ppm (240 mg/m3) PEL (SKIN)	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Paste

Color:

Black

Odor:

None

Odor threshold:

Not available.

pH:

Not applicable

Vapor pressure:

0.1000000 mbar

Boiling point/range:

230.0 °C (446°F)

Melting point/ range:

Not available.

Specific gravity:

1.1270

Vapor density:	1.0000 (Air = 1)
Flash point:	82.8 °C (181.04 °F)
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	Not available.
Viscosity:	34,000 - 40,000 cp
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Oxides of carbon. Toxic fumes. Irritating vapors.
Incompatible materials:	Strong oxidizing agents. Strong acids and strong bases.
Reactivity:	Not available.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.

11. TOXICOLOGICAL INFORMATION

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

Inhalation:	May cause respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache. Harmful if inhaled.
Skin contact:	Causes skin irritation. May cause allergic skin reaction. Harmful in contact with skin.
Eye contact:	Causes serious eye damage.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Phenol formaldehyde resin	None	No Records
Diethylene glycol monobutyl ether	Oral LD50 (Rabbit) = 2,200 mg/kg Oral LD50 (Rat) = 4,500 mg/kg Oral LD50 (Rat) = 5,660 mg/kg Oral LD50 (Rat) = 7,292 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 6,600 mg/kg Oral LD50 (Rat) = 6,560 mg/kg Dermal LD50 (Rabbit) = 2,700 mg/kg Dermal LD50 (Rabbit) = 4,120 mg/kg	Blood, Central nervous system, Irritant, Kidney
Methanol	Oral LD50 (Rat) = 5,628 mg/kg Oral LD50 (Mouse) = 7,300 mg/kg Oral LD50 (Rabbit) = 14.4 g/kg Dermal LD50 (Rabbit) = 15,800 mg/kg	Eyes, Irritant, Metabolic, Nervous System
Carbon black	Oral LD50 (Rat) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity
Graphite	Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3	Lung
Synthetic resin	None	Allergen, Corrosive, Irritant, Kidney, Respiratory, Skin
Butoxyethyl acetate	Oral LD50 (Rat) = 2,400 mg/kg Oral LD50 (Rat) = 3,000 mg/kg Dermal LD50 (Rabbit) = 1,500 mg/kg	Behavioral, Blood, Bone Marrow, Central nervous system, Irritant, Kidney, Liver, Lung
Talc	None	Irritant, Lung, Some evidence of carcinogenicity
Phenol	Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular
Diethyleneglycol monoethyl ether	Oral LD50 (Rat) = 1,920 mg/kg Oral LD50 (Rat) = 5.54 g/kg Oral LD50 (Rat) = 5,900 mg/kg Oral LD50 (Mouse) = 6.58 g/kg Oral LD50 (Rabbit) = 3,620 mg/kg Oral LD50 (Rat) = 6,500 mg/kg Oral LD50 (Mouse) = 7,863 mg/kg Oral LD50 (Mouse) = 12,400 mg/kg Oral LD50 (Rabbit) = 4,450 mg/kg Oral LD50 (Rat) = 7,500 mg/kg Oral LD50 (Mouse) = 7,248 mg/kg Dermal LD50 (Mouse) = 6,000 mg/kg Dermal LD50 (Rabbit) = 10,300 mg/kg Dermal LD50 (Rat) = 6,000 mg/kg Dermal LD50 (Rabbit) = 11,176 mg/kg Dermal LD50 (Rabbit) = 8,500 mg/kg Dermal LD50 (Rabbit) = 8,476 mg/kg	Blood, Central nervous system, Irritant, Kidney
m-xylene	Oral LD50 (Rat) = 6,670 mg/kg Oral LD50 (Rat) = 4,300 mg/kg Oral LD50 (Mouse) = 1,590 mg/kg Dermal LD50 (Rabbit) = 12,100 mg/kg	No Data
Vinyl Resin	None	Irritant
n-Butyl alcohol	Oral LD50 (Rat) = 790 mg/kg Dermal LD50 (Rabbit) = 3,400 mg/kg	Allergen, Central nervous system, Ear, Eyes, Irritant

2-Butoxyethanol	Oral LD50 (Rat) = 560 mg/kg Oral LD50 (Mouse) = 1.2 g/kg Oral LD50 (Rabbit) = 0.32 g/kg Oral LD50 (Rat) = 1.48 g/kg Oral LD50 (Mouse) = 1,519 mg/kg Dermal LD50 (Rabbit) = 400 mg/kg Inhalation LC50 (Rat, 4 h) = 486 ppm Inhalation LC50 (Rat, 4 h) = 450 ppm Inhalation LC50 (Rat, 4 h) = 800 ppm Inhalation LC50 (Rat, 4 h) = > 800 ppm Inhalation LC50 (Rat, 4 h) = > 800 ppm Inhalation LC50 (Rat, 4 h) = 800 ppm	Blood, Central nervous system, Irritant, Kidney, Liver
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Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Phenol formaldehyde resin	No	No	No
Diethylene glycol monobutyl ether	No	No	No
Methanol	No	No	No
Carbon black	No	Group 2B	No
Graphite	No	No	No
Synthetic resin	No	No	No
Butoxyethyl acetate	No	No	No
Talc	No	Group 2B	No
Phenol	No	No	No
Diethyleneglycol monoethyl ether	No	No	No
m-xylene	No	No	No
Vinyl Resin	No	No	No
n-Butyl alcohol	No	No	No
2-Butoxyethanol	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information:

Do not empty into drains / surface water / ground water.

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:

Not a RCRA hazardous waste.

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: Combustible liquid, n.o.s. (Methanol)
 Hazard class or division: Combustible Liquid
 Identification number: NA 1993
 Packing group: III
 DOT Hazardous Substance(s): Methanol

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
 Hazard class or division: None
 Identification number: None
 Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
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:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	Phenol (CAS# 108-95-2).
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). Diethylene glycol monobutyl ether (CAS# 112-34-5). Butoxyethyl acetate (CAS# 112-07-2). Diethyleneglycol monoethyl ether (CAS# 111-90-0). 2-Butoxyethanol (CAS# 111-76-2). Methanol (CAS# 67-56-1). Phenol (CAS# 108-95-2). m-xylene (CAS# 108-38-3).
CERCLA Reportable quantity:	Methanol (CAS# 67-56-1) 5,000 lbs. (2,270 kg) Phenol (CAS# 108-95-2) 1,000 lbs. (454 kg) m-xylene (CAS# 108-38-3) 1,000 lbs. (454 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:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
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16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 11/05/2019

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