

Revision Number: 006.0 Issue date: 07/19/2018

1. PRODUCT AND COMPANY IDENTIFICATION

LOCTITE X514 known as MULTICORE IDH number: **Product name:** 479680

MFXERSIN 514 5 gal

M00367 Product type: Solder flux Item number: Restriction of Use: None identified Region: United States **Contact information:**

Company address: 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

HIGHLY FLAMMABLE LIQUID AND VAPOR. DANGER:

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

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



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep aw ay from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use nonsparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. 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.

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Response: 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 unw ell. IF IN EYES: Rinse cautiously with waterfor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash 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 w ell-ventilated place. Keep container tightly closed. Store in a w ell-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*	
Methyl ethyl ketone	78-93-3	60 - 70	
Plasticizer	Proprietary	5 - 10	
Polyol ester with resin/rosin	Proprietary	5 - 10	
Methyl isobutyl ketone	108-10-1	1 - 5	
n-Butyl alcohol	71-36-3	1 - 5	
Imidazole	288-32-4	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 breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footw ear. Immediately flush skin with

plenty of water (using soap, if available). If symptoms develop and persist, get

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 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: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

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

extreme heat. Vapors may form explosive mixtures with air.

Hazardous combustion products:

Oxides of carbon. Formaldehyde. Thermal decomposition can lead to release

of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, is olate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow material to contaminate ground water system.

Clean-up methods: Evacuate personnel to safe areas. Remove all sources of ignition. Wear

suitable protective clothing, gloves and eye/face protection. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Keep away from heat, spark and flame.

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Keep container closed. Empty containers retain product residue, so obey hazard wamings and handle empty containers as if they were full. Avoid generating static electricity while handling. Use proper grounding procedures when handling near flammable or explosive

materials.

Storage: Store aw ay from ignition sources. Keep in a cool, well ventilated area. Keep

container closed.

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
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m3) PEL	None	None
Plasticizer	None	None	None	None
Polyol ester with resin/rosin	None	None	None	None
Methyl isobutyl ketone	20 ppm TWA 75 ppm STEL	100 ppm (410 mg/m3) PEL	None	None
n-Butyl alcohol	20 ppm TWA	100 ppm (300 mg/m3) PEL	None	None
Imidazole	None	None	None	None

Engineering controls: Ensure adequate ventilation, especially in confined areas. Provide adequate

local exhaust ventilation to maintain w orker exposure below exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

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

Skin protection: Chemical resistant, impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:RedOdor:PungentOdor threshold:Not available.

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pH: Not available.

Vapor pressure: 24 mm hg (20 °C (68°F))

Boiling point/range: Not available.

Melting point/ range: Not available.

Specific gravity: 0.89

Vapor density: Heavier than air. Flash point: -3 °C (26.6 °F) Flam mable/Explosive limits - low er: Not available. Flam mable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flam mability: Not applicable Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available. **VOC** content: 76.2 % Viscosity: 1.0 mPa.s

10. STABILITY AND REACTIVITY

Not available.

Stability: Stable under recommended storage conditions.

Electrostatic charge may build-up during handling. Grounding of equipment is recommended.

Hazardous reactions: Will not occur.

Hazardous decomposition

Decomposition temperature:

products:

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Oxides of carbon. Formaldehyde. Thermal decomposition can lead to release of irritating

gases and vapors.

Incompatible materials: Oxidizing agents. Acids and bases.

Reactivity: Not available.

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

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Inhalation of processing fumes may be harmful. Vapor overexposure may cause drowsiness.

Dizziness

Skin contact: Causes skin irritation. May cause allergic skin reaction.

Eye contact: Causes serious eye irritation.

Ingestion: May cause gastrointestinal tract irritation if sw allowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects Irritant, Central nervous system	
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		
Plasticizer	None	No Records	
Polyol ester with resin/rosin	None	No Data	
Methyl isobutyl ketone	Oral LD50 (Rat) = 2,080 mg/kg Dermal LD50 (Rabbit) = > 16,000 mg/kg	Irritant, Central nervous system	
n-Butyl alcohol	Oral LD50 (Rat) = 790 mg/kg Dermal LD50 (Rabbit) = 3,400 mg/kg	Allergen, Central nervous system, Ear, Eyes, Irritant	
lmidazole	None Allergen, Developmental, Gastroir Liver, Reproductive		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl ethyl ketone	No	No	No
Plasticizer	No	No	No
Polyol ester with resin/rosin	No	No	No
Methyl isobutyl ketone	No	Group 2B	No
n-Butyl alcohol	No	No	No
lmidazole	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: Resin solution

Hazard class or division: 3

Identification number: UN 1866

Packing group:

DOT Hazardous Substance(s): Methyl ethyl ketone

International Air Transportation (ICAO/IATA)

IDH number: 479680

Proper shipping name: Resin solution

Hazard class or division:

Identification number: UN 1866

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: RESIN SOLUTION

Hazard class or division: 3
Identification number: UN 1866
Packing group: ||

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). Methyl ethyl ketone (CAS# 78-93-3). Methyl isobutyl ketone (CAS# 108-10-1).

n-Butyl alcohol (CAS# 71-36-3).

CERCLA Reportable quantity: 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

IDH number: 479680

CEPA DSL/NDSL 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: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs

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