

Revision Number: 009.0 Issue date: 09/20/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:LOCTITE® 5188™ FLANGE SEALANTIDH number:1253203Product type/use:AnaerobicItem number:1253203Restriction of Use:None identifiedRegion: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

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION. SUSPECTED OF CAUSING CANCER.

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
CARCINOGENICITY	2
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2

PICTOGRAM(S)



Precautionary Statements

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Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. 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 water. 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. If skin irritation or rash occurs: Get medical attention. If eye

irritation persists: Get medical attention. Take off contaminated clothing.

Storage: 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*

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Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3-methyl-1,5-pentanedi	906346-20-1	30 - 60
Isobornyl methacrylate	7534-94-3	10 - 30
Amorphous fumed silica	68611-44-9	5 - 10
2-Hydroxyethyl methacrylate	868-77-9	5 - 10
Aromatic methacrylate	10595-06-9	5 - 10
Ethene, homopolymer	9002-88-4	5 - 10
2-Phenoxyethyl acrylate	48145-04-6	5 - 10
Cumene hydroperoxide	80-15-9	1 - 5
Acrylic acid	79-10-7	0.1 - 1
3-[2- (Methacryloyloxy)ethoxycarbonyl]propioni c acid	20882-04-6	0.1 - 1
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1
Hydroxyalkyl methacrylate	27813-02-1	0.1 - 1
methacrylic acid	79-41-4	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 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 clothes. Wash clothing before reuse. Get medical attention.

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. 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.

Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers. In case of fire, keep containers

cool with water spray.

Hazardous combustion products: Oxides of carbon. Irritating organic vapours.

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 cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

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7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

Storage: For safe storage, store at or below 21 °C (69.8 °F)

Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

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
Hexanedioic acid, polymer with 1,3- diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3- methyl-1,5-pentanedi	natomethylbenzene, 2-Propenoic nethyl-,1,2-propanediol and 3-		None	None
Isobornyl methacrylate	None	None None None		None
Amorphous fumed silica	3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	0.8 mg/m3 TWA 20 MPPCF TWA 50 MPPCF TWA Total dust. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 MPPCF TWA Respirable fraction.	None	None
2-Hydroxyethyl methacrylate	None	None	None	None
Aromatic methacrylate	None	None	None	None
Ethene, homopolymer	10 mg/m3 TWA Inhalable particles. 3 mg/m3 TWA Respirable particles.	15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
2-Phenoxyethyl acrylate	None	None	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
3-[2- (Methacryloyloxy)ethoxycarbonyl]propioni c acid	None	None	None	None
1-Acetyl-2-phenylhydrazine	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
methacrylic acid	20 ppm TWA	None	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 with an organic vapor cartridge.

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. Neoprene, Butyl-rubber, or nitrile-

rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Red Odor: Mild

Not available. Odor threshold:

pH: Not applicable, Product is non-soluble (in water).

< 1 hPa (20 °C (68°F)) Vapor pressure: > 100 °C (> 212°F) Boiling point/range:

Melting point/ range: Not applicable, Product is a liquid

Specific gravity: 1.13

Vapor density: > 1 20 °C

> 93 °C (> 199.4 °F) Setaflash Closed Cup Flash point:

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available.

The product is not flammable. Flammability:

Evaporation rate: Not available.

Solubility in water: Not miscible or difficult to mix

Solubility in water: Soluble Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

VOC content: 0.72 %

11,000 - 32,000 mPa.s Viscosity: **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

Hazardous decomposition

products:

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Oxides of carbon. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Water, amines, alkalis and alcohols. Acids. Reducing agents. Oxygen

scavengers. Other polymerization initiators. Heavy metals. Bases. Free radical initiators.

Reactivity: Not available.

Conditions to avoid: Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Causes skin irritation. May cause allergic skin reaction. Inhalation:

Skin contact:

Eye contact: Ingestion:

Causes serious eye irritation.

May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects	
Hexanedioic acid, polymer with 1,3- diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3- methyl-1,5-pentanedi	None	No Records	
Isobornyl methacrylate	None	Irritant, Allergen	
Amorphous fumed silica	None	No Target Organs	
2-Hydroxyethyl methacrylate	Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg	Irritant, Allergen	
Aromatic methacrylate	None	Irritant, Allergen	
Ethene, homopolymer	None	No Target Organs	
2-Phenoxyethyl acrylate	None	Irritant, Allergen	
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Acrylic acid	Oral LD50 (Rat) = 33.5 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 2.5 g/kg Oral LD50 (Rat) = 193 mg/kg Oral LD50 (Rat) = 1,250 mg/kg Inhalation LC50 (Rat, 4 h) = 3.6 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 - < 4.8 mg/l Inhalation LC50 (Rat, 4 h) = > 5.1 mg/l	Allergen, Corrosive, Irritant, Kidney, Liver	
3-[2- (Methacryloyloxy)ethoxycarbonyl]propioni c acid	None	No Records	
1-Acetyl-2-phenylhydrazine	Oral LD50 (Mouse) = 270 mg/kg	Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity	
Hydroxyalkyl methacrylate	None	Irritant, Allergen	
methacrylic acid	Oral LD50 (Mouse) = 1,332 mg/kg Oral LD50 (Mouse) = 1,600 mg/kg Oral LD50 (Mouse) = 1,250 mg/kg Oral LD50 (Rabbit) = 1,200 mg/kg Oral LD50 (Rat) = 1,060 mg/kg Oral LD50 (Rat) = 2,224 mg/kg Dermal LD50 (Rabbit) = 500 mg/kg	Corrosive, Irritant, Allergen	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Hexanedioic acid, polymer with 1,3- diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3- methyl-1,5-pentanedi	No	No	No
Isobornyl methacrylate	No	No	No
Amorphous fumed silica	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Aromatic methacrylate	No	No	No
Ethene, homopolymer	No	No	No
2-Phenoxyethyl acrylate	No	No	No
Cumene hydroperoxide	No	No	No
Acrylic acid	No	No	No
3-[2- (Methacryloyloxy)ethoxycarbonyl]propioni c acid	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No
Hydroxyalkyl methacrylate	No	No	No
methacrylic acid	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

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

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

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

International Air Transportation (ICAO/IATA)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking 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 as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) 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: 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

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Aromatic methacrylate (CAS# 10595-06-9). Phenol, ethoxylated, esters with acrylic acid (CAS# 56641-05-5). 2-Phenoxyethyl acrylate (CAS# 48145-04-6). Ethylene glycol monophenyl ether (CAS# 122-99-6). Cumene hydroperoxide (CAS# 80-15-9).

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: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3,8,9,11,15

Prepared by: Product Safety and Regulatory Affairs

Issue date: 09/20/2023

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