Material Safety Data Sheet



Henkel

Revision Number: 002.1

1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Item number:

Contact information:

Telephone: 860.571.5100

Internet: www.henkelna.com

Emergency telephone: 860.571.5100

Region:

1253203

1253203

United States

Product name: Product type: LOCTITE® 5188™ FLANGE SEALANT Anaerobic

Company address: Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067

2. HAZARDS IDENTIFICATION

			EMERGENCY OVERVIEW
			HMIS:
Physical	state:	Liquid	
Color:		Red	FLAMMABILITY: 1
Odor:		Mild	PHYSICAL HAZARD: 1
			Personal Protection: See MSDS Section 8
	WARNING:		CAUSES EYE AND SKIN IRRITATION.
			MAY CAUSE ALLERGIC SKIN REACTION.
			MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.
			MAY CAUSE RESPIRATORY TRACT IRRITATION.
Relevant	routes of exposur	e:	Skin, Inhalation, Eyes, Ingestion
Potential	Health Effects		
	Inhalation:		May cause respiratory tract irritation.
	Skin contact:		Causes skin irritation. May cause allergic skin reaction. May be harmful if absorbed through
			skin. Rash.
	Eye contact:		Causes eye irritation. Liquid, aerosols or vapor are irritating and can cause tearing, reddening
	Indoction		and swelling.
	Ingestion:		May be harmful if swallowed.
Existing exposure	conditions aggrav	ated by	y Eye, skin, and respiratory disorders. Skin allergies.
			This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFF 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Polyurethane methacrylate	Proprietary	30 - 60	
High boiling methacrylate	7534-94-3	10 - 30	
Amorphous fumed silica	68611-44-9	5 - 10	
2-Hydroxyethyl methacrylate	868-77-9	5 - 10	
2-Phenoxyethyl acrylate	48145-04-6	5 - 10	
Aromatic methacrylate	10595-06-9	5 - 10	
Ethene, homopolymer	9002-88-4	5 - 10	
Ethene, tetrafluoro-, homopolymer	9002-84-0	1 - 5	
Cumene hydroperoxide	80-15-9	1 - 5	
Acrylic acid	79-10-7	1 - 5	
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1	
Ethylene glycol	107-21-1	0.1 - 1	

4. F	IRST AID MEASURES
Inhalation:	Move 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:	Wash with soap and water. Remove contaminated clothes. Wash clothing before reuse. If symptoms develop and persist, get medical attention.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Ingestion:	Do not induce vomiting. Keep individual calm. Get medical attention.
5. FIR	E FIGHTING MEASURES
Flash point:	> 93 °C (> 199.4 °F) ; Estimated
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
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:	Not available
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:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling.

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.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Polyurethane methacrylate	None	None	None	None
High boiling methacrylate	None	None	None	None
Amorphous fumed silica	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
2-Phenoxyethyl acrylate	None	None	None	None
Aromatic methacrylate	None	None	None	None
Ethene, homopolymer	None	None	None	None
Ethene, tetrafluoro-, homopolymer	None	None	None	10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.
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)
1-Acetyl-2-phenylhydrazine	None	None	None	None
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

Skin protection:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination.

Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.

Safety goggles or safety glasses with side shields.

Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid Red

Mild

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate:

Not available Not available Not available Not available Not available > 93 °C (> 199.4 °F) ; Estimated Not available Not available Not available Not available Not available Solubility in water: Partition coefficient (n-octanol/water): VOC content: Insoluble Not available 0.72 %

10. STABILITY AND REACTIVITY

Oxides of carbon. Irritating organic vapours.

Stable

Will not occur.

Hazardous reactions:

Stability:

Hazardous decomposition products:

Incompatible materials:

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

Strong oxidizing agents. Water, amines, alkalis and alcohols. Acids. Reducing

Conditions to avoid:

See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	
Polyurethane methacrylate	No	No	No	
High boiling methacrylate	No	No	No	
Amorphous fumed silica	No	No	No	
2-Hydroxyethyl methacrylate	No	No	No	
2-Phenoxyethyl acrylate	No	No	No	
Aromatic methacrylate	No	No	No	
Ethene, homopolymer	No	No	No	
Ethene, tetrafluoro-, homopolymer	No	No	No	
Cumene hydroperoxide	No	No	No	
Acrylic acid	No	No	No	
1-Acetyl-2-phenylhydrazine	No	No	No	
Ethylene glycol	No	No	No	
Hazardous components		Health Effects/Targe	t Organs	
Polyurethane methacrylate		No Data		
High boiling methacrylate		Irritant, Allerge	en	
Amorphous fumed silica		No Target Organs		
2-Hydroxyethyl methacrylate		Irritant, Allergen		
2-Phenoxyethyl acrylate		Irritant, Allergen		
Aromatic methacrylate		Irritant, Allergen		
Ethene, homopolymer		No Target Organs		
Ethene, tetrafluoro-, homopolymer		No Target Orga	ans	
Cumene hydroperoxide	Allerg	en, Central nervous system, Co	prrosive, Irritant, Mutagen	
Acrylic acid		Allergen, Corrosive, Irritant		
1-Acetyl-2-phenylhydrazine		Blood, Kidney, Mutagen, Some		
Ethylene glycol	Blood, Bone	Marrow, Central nervous syster Kidney, Liver, Met	n, Developmental, Eyes, Irritant, abolic	

12. ECOLOGICAL INFORMATION

Ecological information:

Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:

Hazardous waste number:

Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

Not a RCRA hazardous waste.

U.S. Department of Transportation C Proper shipping name: Hazard class or division: Identification number:	Not regulated None None
Packing group:	None
International Air Transportation (ICA	<u>IO/IATA)</u>
Proper shipping name:	Not regulated
Hazard class or division: Identification number:	None None
Packing group:	None
Water Transportation (IMO/IMDG)	
Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number: Packing group:	None None
Packing group.	None
	15. REGULATORY INFORMATION
States Regulatory Information	
TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act
TSCA 12(b) Export Notification:	Inventory. None above reporting de minimus
CERCLA/SARA Section 302 EHS:	None above reporting de minimus
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA 313:	This product contains the following toxic chemicals subject to the reporting requirements section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40
	CFR 372). 2-Phenoxyethyl acrylate (CAS# 48145-04-6). Aromatic methacrylate (CAS#
	10595-06-9). Cumene hydroperoxide (CAS# 80-15-9). Acrylic acid (CAS# 79-10-7).
CERCLA Reportable quantity:	Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)
	Saccharin (CAS# 81-07-2) 100 lbs. (45.4 kg)
California Proposition 65:	Saccharin (CAS# 81-07-2) 100 lbs. (45.4 kg) This product contains a chemical known in the State of California to cause cancer. This
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	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 othe reproductive harm.
la Regulatory Information	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 othe reproductive harm. 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.
la Regulatory Information	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 othe reproductive harm. 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
la Regulatory Information	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 othe reproductive harm. 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
la Regulatory Information	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 othe reproductive harm.

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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