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1. IDENTIFICATION

Product name:	LOCTITE® 5188™ FLANGE SEALANT	IDH number:	1241991
Product type/	Anaerobic Adhesive	Item number:	1241991
Recommended use:		Region:	Canada
Restriction of Use:	None identified	Contact information:	
Company address:	Henkel Canada Corporation Meadowpine Boulevard 2515 Mississauga, Ontario L5N 6C3	Telephone: +1 (905) 814-6511 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 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: H315 - CAUSES SKIN IRRITATION.
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.
H319 - CAUSES SERIOUS EYE IRRITATION.
H351 - SUSPECTED OF CAUSING CANCER.
H373 - 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

Prevention:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapors, mist, or spray. P264 - Wash affected area thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response:	P280 - Wear protective gloves, clothing, eye and face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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Storage:
Disposal:

contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical attention.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Other hazards Not available.

Classification complies with Canadian Hazardous Products Regulations and is consistent with the provision 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	Weight %*
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
Silane, dichlorodimethyl-, reaction products with 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]propionic acid	20882-04-6	0.1 - 1
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1
Phenol, ethoxylated, esters with acrylic acid	56641-05-5	0.1 - 1
Hydroxyalkyl methacrylate	27813-02-1	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

First Aid Measures by likely routes of exposure

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.

Most important symptoms and effects (acute and delayed): The most important known symptoms and effects, both acute and delayed, are described in Section 11: Toxicological Information.

Indication of any immediate medical attention / special treatment needed: Not available.

5. FIRE FIGHTING MEASURES

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

Improper extinguishing agents: Not available.

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

Unusual fire or explosion hazards: 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 clean-up. 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.

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.

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
None	None	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
Odor threshold:	Not available.
pH:	Not applicable, Product is non-soluble (in water).
Vapor pressure:	< 1 hPa (20 °C (68°F))
Boiling point/range:	> 100 °C (> 212°F)
Melting point/ range:	Not applicable, Product is a liquid
Density/Relative density:	1.13
Relative vapor density:	> 1 20 °C
Flash point:	> 93 °C (> 199.4 °F) Setaflash Closed Cup
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	The product is not flammable.
Evaporation rate:	Not available.
Solubility:	Not miscible or difficult to mix Water
Solubility:	Soluble Acetone
Solubility:	Insoluble Water
Partition coefficient n-octanol/water (logarithmic value):	Not available.
VOC content:	0.72 %
Dynamic viscosity:	11,000 - 32,000 mPa.s
Kinematic viscosity:	> 20.5 mm ² /s
Particle characteristics:	Not applicable, Product is a liquid
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:	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

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

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact: Causes skin irritation. May cause allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3-methyl-1,5-pentanedi	None
Isobornyl methacrylate	None
Silane, dichlorodimethyl-, reaction products with silica	None
2-Hydroxyethyl methacrylate	Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg
Aromatic methacrylate	None
Ethene, homopolymer	None
2-Phenoxyethyl acrylate	None
Cumene hydroperoxide	None
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
3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid	None
1-Acetyl-2-phenylhydrazine	Oral LD50 (Mouse) = 270 mg/kg
Phenol, ethoxylated, esters with acrylic acid	None
Hydroxyalkyl methacrylate	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Hexanedioic acid, polymer with 1,3-diisocyanatomethylbenzene, 2-Propenoic acid, 2-methyl-,1,2-propanediol and 3-methyl-1,5-pentanedi			
Isobornyl methacrylate	Irritant	Allergen	
Silane, dichlorodimethyl-, reaction products with silica			
2-Hydroxyethyl methacrylate	Irritant	Allergen	
Aromatic methacrylate	Irritant	Allergen	
Ethene, homopolymer			
2-Phenoxyethyl acrylate	Irritant	Allergen	
Cumene hydroperoxide	Corrosive Irritant	Allergen	Central nervous system Mutagen
Acrylic acid	Corrosive Irritant	Allergen	Kidney Liver
3-[2-(Methacryloyloxy)ethoxycarbonyl]propionic acid			
1-Acetyl-2-phenylhydrazine		Allergen	Blood Kidney Mutagen Some evidence of carcinogenicity
Phenol, ethoxylated, esters with acrylic acid			
Hydroxyalkyl methacrylate	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
Silane, dichlorodimethyl-, reaction products with 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]propionic acid	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No
Phenol, ethoxylated, esters with acrylic acid	No	No	No
Hydroxyalkyl methacrylate	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.

14. TRANSPORT INFORMATION

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

Canada Transportation of Dangerous Goods - Ground

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

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

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.

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.

16. OTHER INFORMATION

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

Prepared by: Product Safety and Regulatory Affairs

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