

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : PERMATITE 777 SEALANT
 Product form : Mixture
 Other means of identification : Permatite 777 Sealant

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Acrylic emulsion based adhesive

1.3. Details of the supplier of the safety data sheet

Permatite / Division of DSI
 18466 Kenyon Avenue
 Lakeville, MN 55044
 (952)898-3200

1.4. Emergency telephone number

24 Hour Emergency:

 INFOTRAC: 1-800-535-5053
 NOTE : INFOTRAC emergency number to be used only in the event of
 Chemical emergencies involving a spill, leak, fire, exposure or accident
 involving chemicals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Eye Irrit. 2A H319
 Skin Sens. 1 H317
 Carc. 1A H350
 Repr. 1B H360

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : **Danger**

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H350 - May cause cancer (Inhalation)
 H360 - May damage the unborn child. Suspected of damaging fertility. (oral)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P261 - Avoid breathing fume, mist, spray, vapours
 P264 - Wash hands, forearms and face thoroughly after handling
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear eye protection, protective clothing, protective gloves
 P302+P352 - If on skin: Wash with plenty of water
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P321 - Specific treatment (see first aid instructions on this label)
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P405 - Store locked up
 P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Butyl benzyl phthalate	(CAS No) 85-68-7	7 - 13
Poly(oxy-1,2-ethanediy), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	(CAS No) 9002-93-1	0.1 - 1
Octylphenol ethoxylate	(CAS No) 9036-19-5	0.1 - 1
Aluminum, hydroxybis(octadecanoato-O)-	(CAS No) 300-92-5	0.1 - 1
Distillates, petroleum, hydrotreated middle	(CAS No) 64742-46-7	0.1 - 1
Silica: Crystalline, quartz	(CAS No) 14808-60-7	0.1 - 1
Ammonium hydroxide	(CAS No) 1336-21-6	0.1 - 1
3(2H)-Isothiazolone, 2-octyl-	(CAS No) 26530-20-1	0.1 - 1
Glycidoxypropyltrimethoxysilane	(CAS No) 2530-83-8	0.01 - 0.1
Magnesium nitrate	(CAS No) 10377-60-3	0.001 - 0.01

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer (Inhalation). May damage the unborn child. Suspected of damaging fertility (Oral).
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.
- Chronic symptoms : May cause an allergic skin reaction. May cause cancer. May damage the unborn child. Suspected of damaging fertility.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray. Sand.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see item 8).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up small spill with inert solids.

Methods for cleaning up : Wear suitable protective clothing. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety procedures. Avoid breathing fume, mist, spray, vapours. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep away from ignition sources. Avoid elevated temperatures.

Storage temperature : < 49 °C (120 °F)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl acrylate (140-88-5)	
ACGIH TWA (ppm)	5
ACGIH STEL (ppm)	15
Remark (ACGIH)	URT, eye, & GI irr; CNS impair
OSHA PEL (TWA) (mg/m ³)	100
OSHA PEL (TWA) (ppm)	25
OSHA PEL (STEL) (mg/m ³)	100
OSHA PEL (STEL) (ppm)	25
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Octylphenol ethoxylate (9036-19-5)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Magnesium nitrate (10377-60-3)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Aluminum, hydroxybis(octadecanoato-O)- (300-92-5)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Distillates, petroleum, hydrotreated middle (64742-46-7)	
Remark (ACGIH)	OELs not established

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Ethyl acrylate (140-88-5)	
Remark (OSHA)	OELs not established
Butyl benzyl phthalate (85-68-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Glycidoxypropyltrimethoxysilane (2530-83-8)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Silica: Crystalline, quartz (14808-60-7)	
ACGIH TWA (mg/m ³)	0.025 (respirable fraction)
OSHA PEL (TWA) (mg/m ³)	(30)/(%SiO ₂ + 2) total dust; (10)/(%SiO ₂ + 2) respirable fraction
OSHA PEL (TWA) (ppm)	(250)/(%SiO ₂ + 5) respirable fraction
Ammonium hydroxide (1336-21-6)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
3(2H)-Isothiazolone, 2-octyl- (26530-20-1)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

: Gloves. Protective goggles. Wear chemically impervious apron over labcoat and full coverage clothing. Insufficient ventilation: wear respiratory protection.



Hand protection

: Gloves should be classified under Standard EN 374 or ASTM F1296. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. . Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection

: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection

: Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Gun Grade Mastic.
Color	: Grey.
Odor	: Amine-like. Ammonia-like.
Odor Threshold	: No data available
pH	: 7.5 - 8.4
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: 0 °C (32 °F)
Boiling point	: 100 °C (212 °F)
Flash point	: No flash point by TCC (ASTM D56)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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Flammability (solid, gas)	: No flammable limits
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.58 at 15.6 °C (60.0 °F)
Density	: 1588 g/l (13.25 lbs/gal) at 15.6 °C (60 °F)
Solubility	: Miscible with water. Water: Negligible
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 8.5 g/l by ASTM C771-03

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

elevated temperatures. Product contamination. Keep from freezing.

10.5. Incompatible materials

Strong acids. Oxidizing agent. Material reacts strongly with water reactive chemicals in non-cured form.

10.6. Hazardous decomposition products

smoke and irritating fumes. Carbon oxides (CO, CO₂). Aldehydes. Nitrogen oxides. Hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)	
LD50 oral rat	1800 mg/kg
Magnesium nitrate (10377-60-3)	
LD50 oral rat	5440 mg/kg
Distillates, petroleum, hydrotreated middle (64742-46-7)	
LD50 oral rat	7400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Butyl benzyl phthalate (85-68-7)	
LD50 oral rat	2330 mg/kg
LD50 dermal rat	6700 mg/kg
LC50 inhalation rat (mg/l)	> 6.7 mg/l/4h
Glycidoxypropyltrimethoxysilane (2530-83-8)	
LD50 oral rat	22600 µl/kg
LD50 dermal rabbit	3970 µl/kg
Silica: Crystalline, quartz (14808-60-7)	
LD50 oral rat	500 mg/kg
Ammonium hydroxide (1336-21-6)	
LD50 oral rat	350 mg/kg
Ammonia (7664-41-7)	
LD50 oral rat	350 mg/kg
LC50 inhalation rat (mg/l)	5.1 mg/l 1 h
LC50 inhalation rat (ppm)	2000 ppm/4h
ATE CLP (gases)	700.000 ppmv/4h
ATE CLP (vapours)	3.000 mg/l/4h
ATE CLP (dust,mist)	0.500 mg/l/4h

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3(2H)-Isothiazolone, 2-octyl- (26530-20-1)	
LD50 oral rat	550 mg/kg
LD50 dermal rabbit	690 mg/kg
Skin corrosion/irritation	: Not classified pH: 7.5 - 8.4
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7.5 - 8.4
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).

Silica: Crystalline, quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: May damage the unborn child. Suspected of damaging fertility. (oral).
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.
Chronic symptoms	: May cause an allergic skin reaction. May cause cancer. May damage the unborn child. Suspected of damaging fertility.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No information available.

Ethylene glycol (107-21-1)	
LC50 fishes 1	16000 mg/l 96 Hr; Poecilia reticulata; [static]
EC50 Daphnia 1	46300 mg/l 48 Hr; Daphnia magna

12.2. Persistence and degradability

PERMATITE ACRYLIC SEALANT	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

PERMATITE ACRYLIC SEALANT	
Bioaccumulative potential	No information available.

12.4. Mobility in soil

PERMATITE ACRYLIC SEALANT	
Ecology - soil	No information available.

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

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All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
Butyl benzyl phthalate (85-68-7)	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
Ammonium hydroxide (1336-21-6)	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
Ammonia (7664-41-7)	
Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 313 - Emission Reporting	1 % de minimis concentration (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Ethyl acrylate (140-88-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	Not available
Formaldehyde (50-00-0)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	40 µg/day
Butyl benzyl phthalate (85-68-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	Not available
Carbon black (1333-86-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	Not available
Methyl alcohol (67-56-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity -	U.S. - California - Proposition 65 - Reproductive Toxicity -	No significance risk level (NSRL)

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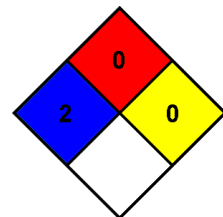
Ethyl acrylate (140-88-5)				
		Female	Male	
No	Yes	No	No	Not available
Silica: Crystalline, quartz (14808-60-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	Not available

Butyl benzyl phthalate (85-68-7)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Limestone (1317-65-3)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Silica: Crystalline, quartz (14808-60-7)
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List
Ammonia (7664-41-7)
U.S. - Massachusetts - Right To Know List
Ethylene glycol (107-21-1)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created.
 Revision date : 02/11/2015
 Other information : Author: BCS.

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
 NFPA fire hazard : 0 - Materials that will not burn.
 NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2*
 Flammability : 0
 Physical : 0
 Personal Protection :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product