

Permatite Material Safety Data Sheet

Permatite / Division of DSI
14551 Judicial Road, Suite 115
Burnsville, Minnesota, USA
55306
www.permatite.com

INFOTRAC (24 hours): 800.535.5053
Information (8-4 CST): 952.898.3200
Fax: 952.898.3232
Emergency: 800.817.1827
info@permatite.com

SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

Product: PERMATITE 777 SUPER SEALANT
Synonyms/Other: Permatite 777 Duct Sealant
MSDS Number: 2
Product Type: Adhesive / Sealant / Mastic
Preparation/Revision Date: 2012-06-01

SECTION 2 COMPOSITION INFORMATION

INGREDIENTS	CAS # / EINECS	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Non-regulated materials	Mixture	Balance	--	--	--	NO
Methyl alcohol	67-56-1 200-659-6	2.6	200 ppm (skin)	250 ppm (skin)	200 ppm (skin)	YES

Comments: No Comments.

TWA – Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.
STEL – Short Term Exposure Limit is the employee's 15-minute time weighted average exposure which shall not be exceeded at any time during a work day unless another time limit is specified.
PEL – Permissible Exposure Limit averaged over an 8-hour workshift.
TLV – Threshold Limit Value averaged over an 8-hour workshift.

SECTION 3 HAZARDOUS IDENTIFICATION

WARNING: MAY CAUSE EYE IRRITATION
MAY BE HARMFUL IF INHALED
MAY BE HARMFUL IF INGESTED

Eye contact: Direct contact may cause irritation, redness, tearing and blurred vision.
Skin contact: Avoid prolonged skin contact. This product contains materials that may cause skin irritation. Prolonged or repeated contact may result in dermatitis (dryness, chapping and reddening of skin).

Inhalation: During application, vapors may be harmful if inhaled. Vapors may cause drowsiness or dizziness.
Once cured, this material has a low vapor pressure and as such is not expected to present an inhalation hazard at ambient temperature.

Ingestion: Do not ingest. Product may cause blindness, organ failure or death in sufficient quantities.

Other: Uncured material is slightly caustic and may irritate sensitive individual's skin.

SECTION 4 FIRST AID MEASURES

Eye contact: Flush eyes with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

Skin contact: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. Do not leave victim unattended. Seek immediate medical attention if necessary.

Ingestion: Do not induce vomiting. If vomiting occurs keep head below hips to prevent

Permatite Material Safety Data Sheet

aspiration and monitor for breathing difficulty. Keep affected person warm and at rest. Seek immediate medical attention.
Other: Not applicable.

SECTION 5 FIRE FIGHTING MEASURES

Flash point: No flash point by TCC (ASTM D56).
Flammable limits: No flammable limits.
Extinguishing media: Not applicable.
Special firefighting procedures: Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to cool containers, disperse gas or vapor, and to protect personnel attempting to stop a leak.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion hazards: Toxic fumes, gases or vapors may evolve from containers in a fire. Ammonia vapors may settle along the ground making breathing difficult.

Byproducts of combustion: Fires involving this product may release oxides of carbon, nitrogen; reactive hydrocarbons and irritating vapors.

Autoignition temperature: Not determined.
Explosion data: Not determined.
Other: Not applicable.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill control procedures (land): Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. In case of an accident or road spill contact INFOTRAC at 800.535.5053 and notify local authorities. For accidents outside of the USA and Canada call +1 352.323.3500.

Spill control procedures (water): Material is dense and expected to sink in water. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard at 800.424.8802).

Waste disposal method: The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.

Other: CAUTION – If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.

SECTION 7 HANDLING AND STORAGE

Handling procedures: Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers retain product residue which may exhibit hazards of material. Therefore, do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Storage procedures: Do not store product in excess of 49°C (120°F). Store containers away from heat, sparks, open flame, or oxidizing materials.

Do not store containers outside due to temperature fluctuations - risk of drawing

Permatite Material Safety Data Sheet

water into product through container seals due to cap and fluid expansion and contractions.
Additional information: No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Applicable mainly to persons in repeated contact situations such as packaging of product, HVAC installers and technicians, service/maintenance, and cleanup/spill control personnel.

Respiratory protection: None required if airborne concentrations are maintained below threshold limits listed on page one. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed utilizing an MSHA/NIOSH approved (or equivalent) ammonia vapor mask.

Eye protection: Eye protection is strongly recommended. If material is handled such that it could contact the eyes, wear safety glasses with side shields or vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Hand protection: For sensitized individuals, impervious gloves such as neoprene or nitrile rubber to avoid skin reactions.

Other protection: Launder soiled clothes.

Local control measures: Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor areas.

Other: Consumption of food and drink should be avoided in work areas where uncured product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor pressure: <0.1 mm Hg at 20°C (68°F) for cured material.

API gravity: Not determined.

Volatile Organic Content (VOC): 35 g/L by ASTM C771-03.

Density: 11.0 lbs/gal at 15.6°C (60.0°F).
1366 g/L at 15.6°C (60.0°F).

Specific gravity: 1.32 at 15.6°C (60.0°F).

Solubility: Not determined.

Percent volatile: ~28% by volume.

Vapor density (air=1): Less than 1.

Evaporation rate (n-Butyl Acetate=1): Less than 1.

Odor: Amine, ammonia odor.

Appearance: Gray semi-solid.

Viscosity: Not determined.

Boiling point: >100°C (212°F).

Pour/Freeze point: Not determined.

Other: pH range 9.4-9.8 (slightly basic/caustic).

SECTION 10 STABILITY AND REACTIVITY

Stability: Material is stable at room temperatures and pressure.

Conditions to avoid: Avoid high temperatures and product contamination. Do not store in freezing conditions.

Incompatibility with other materials: Avoid contact with acids and oxidizing materials. Material reacts strongly with water reactive chemicals.

Decomposition products: Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion. Oxides of carbon and nitrogen; reactive hydrocarbons and irritating vapors.

Hazardous polymerization: Will not occur.

Permatite Material Safety Data Sheet

Other: Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral toxicity: Not determined.
Dermal toxicity: Not determined.
Inhalation toxicity: Cured product is solid at room temperature and not expected to be an inhalation hazard.
Dermal sensitization: Prolonged or repeated contact with uncured product may make skin more sensitive to other skin sensitizers.
Chronic toxicity: Not determined.
Carcinogenicity: The components of this material are not known to be carcinogenic by IARC, NTP, OSHA or ACGIH as known or suspected. See Section 11 - Other.
Mutagenicity: Not determined.
Reproductive toxicity: Not determined.
Other: This product contains methanol – a suspected teratogen (may cause birth defects) based upon animal data.

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity: This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.
Environmental fate: Not determined.
Other: Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-regulated waste in some areas - but still needs to be disposed of at approved facilities. Waste management should be in full compliance with federal, state, and local laws.
Disposal consideration: Look in a local telephone directory or internet for headings under, 'Waste', 'Waste Services', 'Waste Disposal' for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other companies or charities.
Other: The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional requirements as these may be more restrictive than federal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT shipping description: Not applicable.
U.S. DOT identification number: Not applicable.
U.S. DOT hazard classification: Not applicable.
Packaging class: Not applicable.
Other: This DOT description is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

SECTION 15 REGULATORY INFORMATION

Permatite Material Safety Data Sheet

Clean water act/oil pollution act: Not applicable.
TSCA: All components of this material are listed in the U.S. TSCA Inventory.
Other TSCA: Not applicable.
SARA Title III: Section 302/304 extremely hazardous substances:
No known components are listed under Section 302/304.
Section 311, 312 hazard categorization:
Acute (immediate health effects): NO
Chronic (delayed health effects): NO
Fire (hazard): NO
Reactivity (hazard): NO
Pressure (sudden release hazard): NO
Section 313 toxic chemicals:
This product contains the following chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
Methanol (RQ 5000 lbs) 67-56-1

CERCLA: For stationary/moving sources – reportable quantity:
185,185 lbs (83,999 kg) due to methanol.

Other: Releases may be reportable to the Nation Response Center (800.424.8802) under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

SECTION 16 OTHER INFORMATION

	NFPA 704	NPCA-HMIS	KEY
HEALTH:	1	1	0 = Minimal
FIRE:	0	0	1 = Slight
REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	NONE	N/A	3 = Serious
PROTECTION INDEX:	N/A	B	4 = Severe

Precautionary labels: MAY CAUSE EYE IRRITATION
MAY BE HARMFUL IF INHALED
MAY BE HARMFUL IN INGESTED

External information: This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Permatite must rely upon information provided by those materials' manufacturers or distributors.

Creation date: 2012-06-01
File: Permatite 777 Super Sealant MSDS.doc
Version: ii
Author: Research and Development

INFORMATION PROVIDED IN THIS MSDS IS CONSIDERED ACCURATE AND RELIABLE BASED ON INFORMATION ISSUED FROM INTERNAL AND OUTSIDE SOURCES TO THE BEST OF PERMATITE'S KNOWLEDGE. HOWEVER, PERMATITE MAKES NO REPRESENTATIONS, GUARANTEES OR WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, REGARDING THE ACCURACY OF SUCH INFORMATION OR THE RESULT TO BE OBTAINED FROM THE USE THEREOF, OR AS TO THE SUFFICIENCY OF THE INFORMATION HEREIN PRESENTED. PERMATITE ASSUMES NO RESPONSIBILITY FOR INJURY TO RECIPIENT OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND RECIPIENT ASSUMES ALL SUCH RISKS.

Revisions / Comments:

Updated and revised the following:
MSDS format version III (ANSI 16-section format)
Review content