

Material Safety Data Sheet

McGill AirSeal LLC

MSDS Name	United Duct Sealer
Revision Date	May 7, 2007

Section 1: Chemical Product and Company Identification

Product Name	United Duct Sealer
CAS Number	none
HMIS Hazard Rating	Health: 2, Fire: 3, Reactivity: 0
Company Identification	McGill AirSeal LLC 2400 Fairwood Avenue Columbus, Ohio 43207
Contact	McGill AirSeal LLC
Telephone	(800)624-5535, (614)829-1200
Fax	(614)829-1488
Chemtrec (24-hour)	(800)424-9300
Chemtrec International	(703)527-3887
Product Class	solvent mastic
Product Use	duct sealer
Product Code	5841, 5842, 5846, 5847

Section 2: Composition and Information about Ingredients

Hazardous Ingredients	CAS Number	Percent
hexane	110-54-3	22.73
toluene	108-88-3	4.85

OSHA PELs and ACGIH TL Vs are listed in Section 8 where applicable.

Section 3: Hazard Identification

Note	Repeated and prolonged overexposure to the mixture of solvent(s) listed in Section 2 can result in systemic effects including permanent brain, nervous system, liver, and kidney damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Emergency Overview	DANGER: EXTREMELY FLAMMABLE, VAPOR HARMFUL. Vapor can cause flash fire. Contains toluene and hexane. Vapors can ignite explosively. Prevent buildup of vapors by opening all windows and

	doors to create cross-ventilation. Keep away from heat, sparks and open flame. Do not smoke. Turn off stoves, heaters and sparking electric motors. Keep away from all source of ignition until all vapors are gone. Keep container tightly closed when not in use. Avoid prolonged breathing of vapors. KEEP OUT OF THE REACH OF CHILDREN. Product can be light brown, tan, or grayish in color. It is a medium viscosity mastic with a strong solvent odor.
Routes of Entry	Ingestion: Yes; Inhalation: Yes; Skin: Yes; Eye: Yes
Inhalation	Avoid breathing vapors or mist. May cause headache and dizziness. High vapor concentrations are irritating to the nose, throat and lungs and can cause systemic effects. Vapors can readily accumulate in confined or poorly ventilated areas.
Ingestion	Ingestion is not a probable route of exposure. Harmful if swallowed.
Skin	May be harmful if absorbed through skin, may produce kidney, liver, and central nervous system damage. A single exposure is not likely to result in the material being absorbed through the skin in harmful amounts.
Eye	Substance may cause severe eye irritation.
Medical Conditions Aggravated by Exposure	Pre-existing neurological conditions, skin disorders, and respiratory disease.
Carcinogenicity	IARC: No; NTP: No; OSHA: No
Reproductive Toxicity	Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause severe birth defects in humans.
Target Organs	Prolonged or repeated overexposure may cause eye, skin, respiratory system, central nervous system, peripheral nervous system, liver and kidney damage.

Section 4: First Aid Measures

	Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias (irregular beating) in persons exposed to high concentrations of hexane (e.g. in enclosed spaces or with deliberate abuse). If used, monitor heart action closely. Consider use of other drugs with less arrhythmogenic potential.
Inhalation	Remove to fresh air. If difficulty persists seek medical attention.
Ingestion	Call poison control center immediately. Follow their specific instructions. Do not induce vomiting.
Skin	Wash with soap and water. Contact a physician if irritation develops or persists.
Eye	Hold eyelids apart and flush with plenty of water for at least 15 minutes. Seek medical attention.

Section 5: Fire-Fighting Measures

Flammability Class (OSHA)	IB
Flash Point	<0°F; Setaflash
Explosive Range	Lower explosive limit 1.2%; Upper explosive limit 7.5%
Flammable Liquid	Can form explosive mixtures at temperatures at or above the flashpoint.
Extinguishing Media	Use alcohol foam, carbon dioxide, dry chemical, or ABC dry chemical when fighting fires involving this product.
Hazardous Combustion Products	Oxides of carbon may be released during combustion.
Fire-Fighting Procedures	Wear a NIOSH approved self-contained breathing apparatus. Wear appropriate personal protective equipment. Water may be ineffective, but may be used to cool exposed containers to prevent build-up and possible auto ignition or explosion when exposed to extreme heat.

Section 6: Accidental Release Measures

Containment Techniques	Use inert absorbent to dike the spill. Keep away from drains.
Clean-up	If possible pump liquid into an approved container or spread absorbent over spills and shovel (use non-sparking equipment) product/absorbent mixture into an approved container. If product has dried, scrape up and place in an approved container.
Emergency Measures	Isolate hazard area. Keep unnecessary and unprotected personnel from entering area. Wear all appropriate personal protection equipment (PPE) (See Section 8).

Section 7: Handling and Storage

Handling	Avoid breathing vapors from the headspace of containers. Keep lid closed when not in use. Use only in well ventilated areas. Follow all MSDS/label precautions even after container is emptied. Containers may retain product residue and vapors.
Storage	Keep away from sources of ignition. Do not store above 110°F. Store large quantities in buildings designed and protected for storage of NFPA Class 1-B flammable materials.

Section 8: Exposure Controls and Personal Protection

Occupational Exposure Limits		
	hexane	toluene
ACGIH TLV	50.00	20.00
ACGIH TLV-C	Not Established	Not Established
ACGIH STEL	Not Established	Not Established
OSHA STEL	Not Established	Not Established
OSHA PEL	500.00 ppm	200.00 ppm

The OSHA Ceiling for toluene is 300 ppm.	
Engineering Controls	Use local exhaust as needed to maintain occupational exposure limits. Maintain standard plant ventilation.
Other	Facilities storing or utilizing any chemical should be equipped with an eyewash facility and a safety shower.
Respiratory Protection	Where exposure limits may be exceeded select a NIOSH approved respirator with appropriate Protection Factor and cartridge for the specific contaminants. Follow requirements for respiratory protection in OSHA 1910.134.
Eye Protection	Chemical splash goggles (ANSI Z87.1 or approved equivalent).
Skin Protection	Where skin contact can occur wear impervious gloves.

Section 9: Physical and Chemical Properties

Form	mastic
Appearance/Color	light brown/tan/gray
Odor	solvent
Solubility (in water)	nil
pH Value	not applicable
Boiling Range/Point	156°F
Evaporation Rate	faster than n-Butyl Acetate
% Volatile	28%
Specific Gravity	1.14
VOC	302 g/l

Section 10: Stability and Reactivity

Stability	This product is stable.
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Heat, sparks, open flames
Incompatibility	Strong oxidizing agents, acids and bases
Hazardous Decomposition Products	Will not occur.

Section 11: Toxicological Information

Hexane/Acute	Ingestion of hexane can cause nausea, vomiting, stomach pain, and diarrhea. Hexane can irritate the skin and eyes. Acutely, the most common toxic effects are central nervous system depression and chemical pneumonitis resulting from aspiration into the lungs following ingestion.
Hexane/Chronic	Dermal irritation and central nervous system depression accompanied by peripheral nervous system damage (polyneuropathy) are common traits of sustained overexposure.
Toluene/Acute	Toluene is a central nervous system depressant and skin and mucous membrane irritant. Severe dermatitis may result from its drying and defatting action. Toluene is an aspiration hazard causing chemical pneumonitis.
Toluene/Chronic	Toluene can cause cardiac sensitization. It is toxic to the kidney, liver. Can cause effects on the blood system such as increased clotting time. Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

Section 12: Ecological Information

This formulation has not been tested for environmental effects.

Section 13: Disposal Considerations

Waste Disposal	Disposal of this product must comply with all applicable federal, state, and local regulations.
Container Disposal	Disposal of this container should comply with all applicable federal, state, and local regulations.

Section 14: Transport Information

For any shipment of 10.5-ounce cartridges, and for 1-gallon pails not shipped by air:

DOT	UN Number: None UN Pack Group: Not Applicable UN Class: ORM-D Shipping Name: Consumer Commodity
Air	UN Number: ID8000 UN Pack Group: Not Applicable UN Class: 9 ICAO/IATA: 9 Shipping Name: Consumer Commodity
Maritime	UN Number: None UN Pack Group: Not Applicable UN Class: Not Applicable IMDG Class: Limited Quantity Shipping Name: Dangerous Goods in Limited Quantities of Class 3

For air shipments of 1-gallon pails and any shipment of 5-gallon pails:

Air	UN Number: UN1133 UN Pack Group: III UN Class: 3 ICAO/IATA: 3 IMDG Class: 3
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	Shipping Name: Adhesives containing a Flammable Liquid
For 52-gallon drums:	
	UN Number: UN1133 UN Pack Group: II UN Class: 3 ICAO/IATA: 3 IMDG Class: 3 Shipping Name: Adhesives containing a Flammable Liquid
Packaging may not be approved for shipping by air. Contact McGill AirSeal for further information.	

Section 15: Regulatory Information

SARA Title III 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 and of 40 CFR 372:

Chemical Name	CAS Number	Percent
hexane	110-54-3	22.73
toluene	108-88-3	4.85

PROP 65 (teratogen)

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

Chemical Name	CAS Number	Percent
toluene	108-88-3	4.85

Pennsylvania

Hazardous components required to be listed at 1% or more

kaolin clay; kaolin; 1332-58-7
hexane; hexane; 110-54-3
toluene; benzene, methyl-; 108-88-3

Non-hazardous components required to be listed at 3% or more

styrene-butadiene rubber; 9003-55-8
C-9 resin; 68240-01-7
chlorinated paraffin; 63449-39-8

New Jersey

clay; 1332-58-7
C-9 resin; 68240-01-7
styrene-butadiene rubber; 9003-55-8
hexane; 110-54-3
chlorinated paraffin; 63449-39-8

Section 16: Other Information

Disclaimer

While the information and recommendations set forth herein are believed to be accurate as of the data hereof, McGill AirSeal LLC makes no warranty, express or implied, with respect thereto and disclaims all liability from reliance thereon.

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