



Sarnafil®

Sika Sarnafil
100 Dan Road
Canton, MA 02021-2842

Sarnacol 2170

MSDSFILE: S2170

PRINT DATE: 3/22/2011
REVISION DATE: 3/22/11

Material Safety Data Sheet

(Complies with 29 CFR 1910.1200 Hazard Communication Standard)

SECTION 1 Product and Company Identification

TRADE NAME: Sarnacol 2170
 SYNONYMS: Adhesive

MANUFACTURER: Sika Sarnafil
 ADDRESS: 100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS: CHEMTREC Transportation Emergency (24 hr.) (800) 424-9300
 MSDS and Product Information (M-F, 8.30AM - 5.00PM EST) (800) 451-2504

SECTION 2 Information on Hazardous Ingredients

CHEMICAL/COMMON NAME	CAS NUMBER	PERCENT
Methyl Ethyl Ketone	78-93-3	35 to 60%
Toluene	108-88-3	15 to 40%
Xylene	1330-20-7	1 to 5%

SECTION 3 Hazards Identification

EYES: Eye irritant causing redness, tearing, blurred vision. Uncontrolled exposure may cause severe eye irritation and corneal damage.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.

INHALATION: May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion. Prolonged or repeated exposure to vapors or mist may cause liver damage, kidney damage, forms carbon monoxide in the body and may interfere with normal blood function at high concentrations.

INGESTION: Swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis, which can be fatal.

SYMPTOMS: Breathing difficulties, irritant to eyes and skin, anaesthetic may affect the central nervous system. Pre-existing eye, skin, respiratory, liver, or kidney disorders may be aggravated by exposure.

SECTION 4 First Aid Measures

EYES: Flush eyes gently with water for 15 minutes while holding eyelids. Get medical attention.

SKIN: Remove contaminated clothing and wash exposed skin with soap and plenty of water for 15 minutes. If symptoms persist seek medical attention. Launder clothing before reuse.

INHALATION: Immediately move individuals away from exposure into fresh air. Seek immediate medical attention.

INGESTION: Do NOT induce vomiting. Prevent aspiration of liquid into lungs by keeping head below hips. If individual is drowsy or unconscious, place on left side with head down. Seek immediate medical attention. If possible, do not leave individual unattended.



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SECTION 5 Fire Fighting Measures

FLASH POINT (°F/°C)
23°F -5°C

LEL (volume %)
0.9 %

UEL (volume %)
10 %

- Extinguishing Media:** Carbon dioxide, dry chemical, foam, or water spray.
- Fire Fighting Procedures:** Wear a self-contained NIOSH approved breathing apparatus with a full face-piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Avoid breathing smoke.
- Unusual Hazards:** Extremely flammable. Vapors may ignite and/or cause flash fires. Eliminate sources of ignition. No smoking. Use adequate ventilation sufficient to remove odor of solvent and vapors. Electrically ground all containers during transfer. Sealed containers may rupture with heat and pressure increase. Keep cool with water. Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Water tends to spread burning liquid if large amounts are used.
- Combustion Products:** Degradation in the presence of air may yield carbon dioxide, carbon monoxide, aldehydes, phosgene, and HCl.

SECTION 6 Accidental Release Measures

- Small Spill:** Absorb liquid with Vermiculite, floor absorbent or other absorbent material.
- Large Spill:** Keep spectators away. Eliminate all ignition sources (flares, flames including pilot lights, electrical and frictional sparks). Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading by sand or absorbent dikes. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for recovery. Dispose of in accordance with federal, state and local regulations.

SECTION 7 Handling and Storage

For professional and industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe fumes. Avoid contact with body. Turn off all pilot lights, flames stoves, heaters, electric motors, welding equipment and other sources of ignition. Close all containers when not in use. Empty containers must not be washed and re-used for any purpose. Contact lens wearers take appropriate precautions. Wash hands thoroughly after handling.

Containers of this material may be hazardous when emptied. Since emptied containers contain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode. Containers of solvent containing products must be resealed and kept tightly closed when not in use. This will prevent solvent evaporation and skinning. Ground all equipment when handling flammable solvent borne materials.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL and TLV(s).

Personal Protective Equipment

EYES: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses. Consult your safety representative.



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SKIN: To prevent repeated or prolonged skin contact wear impervious gloves, clothing, and boots. Consult your safety equipment supplier. Barrier creams may be used for sensitive skin.

RESPIRATORY: If workplace exposure limit(s) of product or any component is exceeded, a NIOSH approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH approved respirators (negative pressure type) under specified conditions (see your industrial hygienist). Implement engineering or administrative controls to reduce exposure.

Exposure Guidelines:

<u>CHEMICAL</u>	<u>OSHA</u>	<u>ACGIH TLV</u>
Methyl Ethyl Ketone	PEL = 200 ppm	TWA = 200 ppm STEL = 300 ppm
Toluene	PEL = 200 ppm	TWA = 50 ppm
Xylene	PEL = 100 ppm	TWA = 100 ppm STEL = 150 ppm

PEL = Permissible Exposure Limits
TLV = Threshold Limit Value

TWA = Time Weighted Average (8 hr.)
STEL = Short Term Exposure Limit (15 min.)

SECTION 9 Physical and Chemical Properties

<u>APPEARANCE:</u>	Hazy amber liquid
<u>ODOR:</u>	Ketone odor
<u>BOILING POINT (@ 760 mm Hg):</u>	232 °F
<u>SPECIFIC GRAVITY:</u>	0.888
<u>LIQUID DENSITY:</u>	7.39 lbs/gal
<u>SOLUBILITY IN WATER:</u>	Insoluble
<u>% VOLATILE WEIGHT:</u>	77%
<u>EVAPORATION RATE (Butyl Acetate=1):</u>	>1
<u>VAPOR PRESSURE (mm Hg):</u>	270 mm Hg at 55 °C
<u>VAPOR DENSITY (air=1):</u>	Heavier than air

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Heat, sparks, static electricity, pilot lights, open flame, and smoking.

INCOMPATIBILITY WITH OTHER MATERIALS:

Strong oxidizing agents, caustics, amines, alkanolamines, aldehydes, and ammonia.



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HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal degradation in the presence of air may yield carbon dioxide, carbon monoxide, aldehydes, phosgene, and HCl.

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.

SECTION 11 Toxicological Information

NTP Carcinogen: NA

IARC Monographs: NA

OSHA Regulated: NA

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local regulations. Residues and spilled material are hazardous waste due to flammability. Law generally requires incineration at an EPA-permitted hazardous waste management facility.

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:	Adhesive
D.O.T. Hazard Class:	3
D.O.T. Identification Number:	UN 1133
D.O.T. Packing Group:	II

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is not regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355).

SARA Title III, Section 311/312 Categories:

Chronic (X)	Acute (X)	Fire (X)	Pressure ()	Reactivity ()
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SARA Title III, Section 313:

This product contains the following toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986:

CHEMICAL/COMMON NAME	CAS NUMBER	PERCENT
Methyl Ethyl Ketone	78-93-3	35 to 60%
Toluene	108-88-3	15 to 40%



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Xylene

1330-20-7

1 to 5%

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

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

Chemical Name	CAS No.	Percent
Toluene	108-88-3	15-40

SECTION 16 Other Information

	HMIS	NFPA
HEALTH:	2	N/A
FLAMMABILITY:	3	3
REACTIVITY:	0	0
PERSONAL PROTECTION:	B	N/A

Sika Sarnafil Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Data Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.