

**FLEXITILE LTD**  
**Material Safety Data Sheet**  
**1000 FLEXILASTIC CRACK ISOLATION & SOUND REDUCTION MEMBRANE**

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IN CASE OF EMERGENCY.

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**Material Identification**

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PRODUCT IDENTIFIER..... 1000 FLEXILASTIC CRACK ISOLATION & SOUND REDUCTION MEMBRANE  
WHMIS CLASSIFICATION..... NOT REGULATED UNDER WHMIS

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**Hazardous Ingredient of Materials**

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<u>CHEMICAL IDENTITY</u>	<u>CONC.</u>	<u>CAS#/NA#/UN#</u>	<u>EXPOSURE LIMIT</u>
ASPHALT (PETROLEUM; BITUMEN)	50-80%	8052-42-4	0.5 MG/M3 TLV-TWA
CALCIUM CARBONATE	10-20%	1317-65-3	5 MG/M3 PEL-TWA (RESPIRABLE FRACTION) 10 MG/M3 TLV-TWA

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NON-HAZARDOUS COMPONENTS >1%: RESINS AND POLYMERS 10-30%

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**Physical Data for Product**

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APPEARANCE AND ODOR: BLACK TAPE WITH NO ODOR.  
PHYSICAL STATE: SOLID  
BOILING POINT: NOT APPLICABLE VAPOR PRESSURE: NOT APPLICABLE  
VAPOR DENSITY: NOT APPLICABLE EVAPORATION RATE: NOT APPLICABLE  
SOLUBILITY IN WATER: INSOLUBLE  
BULK DENSITY: 15.723 POUNDS/GALLON  
SPECIFIC GRAVITY: 1.883 PH: NA  
MELTING POINT: 220°F (104°C) (SOFTENING POINT)  
OCTANOL/WATER COEFFICIENT: NO DATA AVAILABLE  
CALCULATED VOC CONTENT 0 gm/L

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**Fire and Explosion Hazard of Product**

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FLAMMABLE LIMITS: LEL: NA UEL: NA FLASH POINT: >320° F  
AUTOIGNITION TEMPERATURE: NOT DETERMINED  
EXTINGUISHING MEDIA: USE FOAM OR DRY CHEMICAL TO EXTINGUISH FIRE. USE FOG NOZZLES IF WATER IS USED. WATER STREAMS MAY CAUSE VIOLENT ERUPTIONS AND SPREAD THE BURNING OF ASPHALT. USE WATER TO COOL FIRE EXPOSED CONTAINERS AND STRUCTURES.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: PRODUCT WILL BURN IF EXPOSED TO ELEVATED TEMPERATURES OR FIRE. HOT ASPHALT MAY IGNITE FLAMMABLE MIXTURES ON CONTACT. TOXIC VAPORS INCLUDING HYDROGEN SULFIDE MAY BE RELEASED UPON COMBUSTION. HYDROGEN SULFIDE VAPORS ARE HEAVIER THAN AIR, MAY ACCUMULATE IN LOW AREAS AND FLASHBACK IF IGNITED.  
SPECIAL FIRE-FIGHTING INSTRUCTIONS: FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES.  
HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, SULFUR OXIDES, HYDROGEN SULFIDE, ACROLEIN, ALDEHYDES, KETONES AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED ON COMBUSTION.  
EXPLOSION DATA (SENSITIVITY TO MECHANICAL IMPACT OR STATIC DISCHARGE): NONE KNOWN.

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**Reactivity Data**

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STABILITY: STABLE UNDER NORMAL STORAGE AND HANDLING CONDITIONS  
INCOMPATIBILITY: STRONG OXIDIZERS. AVOID WATER IF PRODUCT IS MOLTEN.  
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, SULFUR OXIDES, HYDROGEN SULFIDE, ACROLEIN, ALDEHYDES, KETONES AND UNIDENTIFIED ORGANIC COMPOUNDS.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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### Toxicological Properties of Product

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#### HEALTH HAZARDS:

INGESTION: NO ADVERSE EFFECTS ARE EXPECTED FROM NORMAL USE. SWALLOWING MAY CAUSE GASTRO-INTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

INHALATION: NO ADVERSE EFFECTS EXPECTED AT AMBIENT TEMPERATURES. VAPORS RELEASED FROM HEATING PRODUCT MAY CAUSE RESPIRATORY IRRITATION. AT ELEVATED TEMPERATURES HYDROGEN SULFIDE MAY BE RELEASED. THE RELEASE OF HYDROGEN SULFIDE GAS IN VARIOUS CONCENTRATIONS MAY CAUSE IRRITATION OF THE EYES AND RESPIRATORY TRACT, HEADACHE, DIZZINESS, NAUSEA AND DROWSINESS. EXPOSURE TO HIGH CONCENTRATIONS OF HYDROGEN SULFIDE CAN CAUSE RESPIRATORY ARREST AND DEATH

EYE: MAY CAUSE IRRITATION WITH REDNESS, TEARING AND BLURRED VISION. CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES MAY CAUSE THERMAL BURNS

SKIN: MAY CAUSE IRRITATION, DEFATTING OF THE SKIN AND DERMATITIS. CONTACT WITH PRODUCT AT ELEVATED TEMPERATURES MAY CAUSE THERMAL BURNS.

SENSITIZATION: THIS PRODUCT IS NOT EXPECTED TO CAUSE SENSITIZATION.

CHRONIC/CARCINOGENICITY: NO ADVERSE EFFECTS EXPECTED AT AMBIENT TEMPERATURES. PROLONGED INHALATION OF ASPHALT SMOKE HAS BEEN SHOWN TO CAUSE BRONCHITIS, PNEUMONITIS AND ABSCESS FORMATION IN LABORATORY ANIMALS. ASPHALT FUME CONDENSATES HAVE BEEN SHOWN TO CAUSE TUMORGENIC RESPONSES WHEN REPEATEDLY APPLIED TO THE SKIN OF LABORATORY ANIMALS. PROLONGED INHALATION OF TALC DUST MAY CAUSE LUNG DAMAGE (PULMONARY FIBROSIS), HOWEVER, THE TALC IN THIS PRODUCT IS BOUND IN A POLYMER MATRIX AND DUST EXPOSURE WOULD NOT BE EXPECTED. ASPHALT (PETROLEUM, BITUMEN) IS LISTED BY IARC AS "POSSIBLY CARCINOGENIC TO HUMANS", GROUP 2B.

MUTAGENICITY: NO ADVERSE EFFECTS FROM AVAILABLE DATA.

SYNERGISTIC PRODUCTS: NONE SPECIFICALLY KNOWN.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: EMPLOYEES WITH PRE-EXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

#### ACUTE TOXICITY VALUES:

ASPHALT: ORAL RAT LD50 - >5.0 G/KG

SKIN RABBIT LD50 - > 2.0 G/KG

SKIN RABBIT LD50 - 14100 UL/KG

CALCIUM CARBONATE: NO ACUTE TOXICITY DATA AVAILABLE

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### Preventive Measures

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ENGINEERING CONTROLS: GENERAL VENTILATION SHOULD BE ADEQUATE FOR NORMAL USE. FOR OPERATIONS WHERE THE TLV MAY BE EXCEEDED, MECHANICAL VENTILATION SUCH AS LOCAL EXHAUST MAY BE NEEDED TO MAINTAIN EXPOSURE LEVELS BELOW APPLICABLE LIMITS

RESPIRATORY PROTECTION: NONE NEEDED UNDER AMBIENT CONDITIONS. FOR SITUATIONS WHERE THE PRODUCT IS HEATED, HYDROGEN SULFIDE MAY BE RELEASED. IN SUCH CONDITIONS, A NIOSH APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED. GAS MASKS OR OTHER AIR PURIFYING RESPIRATORS ARE NOT RECOMMENDED FOR HYDROGEN SULFIDE DUE TO ITS POOR ODOR WARNING PROPERTIES. EQUIPMENT SELECTION DEPENDS ON CONTAINMENT TYPE AND CONCENTRATION, SELECT IN ACCORDANCE WITH 29 CFR 1910.134 AND GOOD INDUSTRIAL HYGIENE PRACTICE. FOR FIREFIGHTING, USE SELF-CONTAINED BREATHING APPARATUS.

SKIN PROTECTION: AVOID SKIN CONTACT. WEAR APPROPRIATE IMPERVIOUS GLOVES.

EYE PROTECTION: SAFETY GLASSES OR GOGGLES SHOULD BE WORN WHERE CONTACT IS POSSIBLE.

OTHER: WEAR LONG SLEEVED SHIRT AND LONG PANTS TO AVOID SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING.

WASTE DISPOSAL..... DISCARD OR DISPOSE OF WASTE IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL & FEDERAL REGULATIONS.

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH THE EYES AND SKIN. THIS PRODUCT IS NOT INTENDED TO BE HEATED BUT IF PRODUCT IS HEATED PROVIDE ADEQUATE VENTILATION AND AVOID BREATHING VAPORS AND MISTS. WASH WITH SOAP AND WATER AFTER USE.

STORAGE REQUIREMENTS..... STORE IN A COOL, WELL VENTILATED AREA AWAY FROM EXCESSIVE HEAT AND SOURCES OF IGNITION.

SPECIAL SHIPPING INFORMATION..... PROPER SHIPPING NAME: NOT REGULATED

UN NUMBER: NONE

HAZARD CLASS/PACKING GROUP: NONE

LABELS REQUIRED: NONE

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### First Aid Measures

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EYE: FIRST CHECK VICTIM FOR CONTACT LENSES AND REMOVE IF PRESENT. FLUSH VICTIM'S EYES WITH LARGE QUANTITIES OF WATER, HOLDING THE EYELIDS APART. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF RASH OR IRRITATION DEVELOP, GET MEDICAL ATTENTION

INGESTION: IF CONSCIOUS, RINSE MOUTH WITH WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET MEDICAL ATTENTION.

INHALATION: IF SYMPTOMS OF EXPOSURE DEVELOP, REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT OR SYMPTOMS PERSIST, GET IMMEDIATE MEDICAL ATTENTION.

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### Regulatory Information

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CERCLA/SUPERFUND: THIS PRODUCT IS NOT SUBJECT TO CERCLA REPORTING REQUIREMENTS.

SARA HAZARD CATEGORY (311/312): ACUTE HEALTH, CHRONIC HEALTH

SARA 313 INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO ANNUAL RELEASE REPORTING REQUIREMENTS UNDER SARA TITLE III, SECTION 313 (40 CFR 372): NONE

EPA TSCA INVENTORY: ALL OF THE INGREDIENTS IN THIS PRODUCT ARE LISTED ON THE EPA TSCA INVENTORY CALIFORNIA PROPOSITION 65

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: NONE

THIS PRODUCT HAS BEEN CLASSIFIED UNDER THE CPR AND THIS MSDS DISCLOSES INFORMATION ELEMENTS REQUIRED BY THE CPR.

CANADIAN WHMIS CLASSIFICATION: NOT A CONTROLLED PRODUCT (MANUFACTURED ARTICLE).

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CANADIAN CEPA: ALL THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN DSL

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### Preparation Date of Material Safety Data Sheet

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PREPARED BY	CHIEF CHEMIST		
PHONE NUMBER OF PREPARER	416-255-1111	FAX	416-255-1729
DATE PREPARED	26 Oct., 2016		

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Flextile Ltd. assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Flextile Ltd., assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

FLEXTILE LTD.

N/D= NOT DETERMINED