

MATERIAL SAFETY DATA SHEET

TAR COATED GLASS FIBER FELTS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Tar Coated (TC) Glass Fiber Felts (Coal Tar)

OTHER/GENERIC NAMES: Tar Coated Glass Fiber Roofing Felt. Fiber glass felt impregnated with coal tar pitch.

PRODUCT USE: Primary use: Built-up roofing.

MANUFACTURER: Durapax LLC
Commercial Roofing Systems
400 Old Reading Pike, Suite 304
Pottstown PA 19464

FOR MORE INFORMATION CALL:
(Monday-Friday, 8:00am-4:30pm EST)
1-610-579-9075

IN CASE OF EMERGENCY CALL:
(24 Hours/Day, 7 Days/Week)
1-610-579-9075
Chemtrec 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Glass Fibers	65997-17-3	85-90
*Coal Tar Pitch	65996-93-2	5-10
Sand, Silica (SiO ₂)	14808-60-7	5

* Mixture of organic compounds, primarily 3 to 40 ringed polynuclear aromatic hydrocarbons, including some substituted compounds. It is estimated that as many as 4500+ compounds may be present.

Trace impurities and additional material names not listed above may also appear in Section 15 towards the end of the MSDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Vapor can cause moderate to severe irritation of eyes, nose, throat and respiratory tract. Can cause burning and itching with reddening of the skin, which is accentuated by sunlight. Glass fiber/dust can be a mechanical irritant to eyes and skin.

POTENTIAL HEALTH HAZARDS

SKIN: Contact with skin can result in irritation which when not washed off or when accentuated by sunlight, can result in minor burns. Glass fibers may cause skin irritation.

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EYES: Overexposure to product vapors can result in irritation. Eye contact with product will result in irritation, which in the absence of recommended first aid can result in minor burns to the eyes. Glass fibers may cause mechanical irritation to eyes.

INHALATION: Overexposure to vapor may result in irritation to respiratory tract. Prolonged exposure in significant excess of permissible air concentrations can result in acute toxic effects, such as coughing, sneezing, headache, dizziness, respiratory difficulty, and convulsions. Generally, there is no adverse health effects from inhaled glass fiber dust; similar to nuisance dust.

INGESTION: Irritation of the gastrointestinal tract followed by nausea and vomiting, abdominal discomfort, rapid pulse, movements, etc.

DELAYED EFFECTS: Prolonged and repeated skin exposure over many months to years, in the absence of recommended hygiene practices, may lead to changes in skin pigmentation and benign skin growths. In some cases, skin cancer may occur after many years of exposure. These effects appear to be exacerbated by simultaneous exposure to ultraviolet light (sunlight). Long term exposure to coal tar pitch volatiles has been associated with the development of skin, kidney, bladder, scrotum and lung cancer.

Ingredients found on one of the OSHA designated carcinogen lists are listed below.

<u>INGREDIENT NAME</u>	<u>NTP STATUS</u>	<u>IARC STATUS</u>	<u>OSHA LIST</u>
Coal Tar Pitch	Known carcinogen	1 – Known Carcinogen	Carcinogen
Glass Fiber	Reasonably Anticipated To be a Human Carcinogen	3 – Not Classifiable	Not Listed

4. FIRST AID MEASURES

SKIN: Remove with waterless hand cleaners or soap and water. Avoid solvents.

EYES: Flush eyes immediately with plenty of water or mineral spirits for at least 15 minutes. Call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration; preferably mouth-to-mouth. If breathing is difficult, give oxygen and call a physician.

INGESTION: If conscious, first induce vomiting, then take 2 tablespoons of activated charcoal –USP (drug grade) in water. Get immediate medical assistance.

ADVICE TO PHYSICIAN: No additional information.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

FLASH POINT METHOD: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

UPPER FLAME LIMIT (volume % in air): Not applicable

LOWER FLAME LIMIT (volume % in air): Not applicable

FLAME PROPAGATION RATE (solids): Not applicable

OSHA FLAMMABILITY CLASS: Not Determined

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EXTINGUISHING MEDIA: Water/fog, carbon dioxide, foam, dry chemicals, sand or steam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Water/fog can control fire. When heated to decomposition, it emits lower molecular weight compounds.

SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS: Water/fog can control unconfined fires. Scott Air-Packs should be available.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE: (Always wear recommended personal protective equipment.) Not applicable.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

NORMAL HANDLING: (Always wear recommended personal protective equipment.) Wear clothing closed at the neck, long sleeves and non-porous gloves.

STORAGE RECOMMENDATIONS: Store in cool, dry, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Avoid breathing vapors. To rectify, ventilate work area and/or wear respirator and goggles, or face shield.

PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: Full long-sleeved clothing closed at the neck and non-porous gloves. For exposed skin, use approved creams, (e.g. Pro-Tek, Fend A-2, or Safeticote Skin Protector #83734)

EYE PROTECTION: Safety glasses, goggles or face shield.

RESPIRATORY PROTECTION: Use NIOSH-approved respirator with suitable organic vapor cartridge when fumes and/or smoke are present.

ADDITIONAL RECOMMENDATIONS: Change clothes daily if contaminated.

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EXPOSURE GUIDELINES

INGREDIENT NAME

	<i>ACGIH TLV</i>	<i>OSHA PEL</i>	<i>OTHER LIMIT</i>
Coal Tar Pitch	0.2 mg/m ³ TWA	0.2 mg/m ³ TWA	None
Glass Fibers	1 fiber/cc (for fibers longer than 5 µm with diameter less than 3 µm) 5 mg/m ³ (inhalable fraction) (Listed under "Synthetic vitreous fibers")	5 mg/m ³ (respirable fraction) 15 mg/m ³ (total dust)	None

* = Workplace Environmental Exposure Level (AIHA).

** = Biological Exposure Index (ACGIH).

OTHER EXPOSURE LIMITS FOR POTENTIAL DECOMPOSITION PRODUCTS: None

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Black Solid	
PHYSICAL STATE:	Solid	
MOLECULAR WEIGHT:	Not Determined	
CHEMICAL FORMULA:	Mixture	
ODOR:	Aromatic	
SPECIFIC GRAVITY (water = 1.0):	Not Determined	
SOLUBILITY IN WATER (weight %):	Insoluble	
pH:	Not Applicable	
BOILING POINT:	Not Applicable	
MELTING POINT:	Not Applicable	
VAPOR PRESSURE:	Not Applicable	
VAPOR DENSITY (air = 1.0):	Not Applicable	
EVAPORATION RATE:	Not Applicable	COMPARED TO: Not Applicable
% VOLATILES:	Not Determined	
FLASH POINT:	Not Applicable	

(Flash point method and additional flammability data are found in Section 5.)

10. STABILITY AND REACTIVITY

NORMALLY STABLE? (CONDITIONS TO AVOID): Stable

INCOMPATIBILITIES: None

HAZARDOUS DECOMPOSITION PRODUCTS: When burned, the material decomposes, emitting lower molecular weight compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

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11. TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS: See Section 3.

DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS:

PITCH: Long term exposure to Coal Tar Pitch Volatiles (CTPV), above the recommended exposure limit, has been associated with the development of skin, kidney, lung, bladder, and scrotum cancer.

FIBER GLASS WOOL: There are no studies to indicate that exposure to glass fiber dust causes cancer or respiratory damage in man. Studies of rats exposed to glass fibers of various diameters and exposure routes resulted in an increase in cancers. However, in the absence of adverse human health effects of inhaled fibrous glass dust, the relevance of these results to humans has not yet been determined.

OTHER DATA:

PITCH: IARC Group 1 – Sufficient evidence of carcinogenicity in humans. No scientific study supports an association between coal tar pitch exposure and human reproductive hazards. Available data characterizes coal tar pitch as a mutagen.

FIBER GLASS WOOL: In October 2001, IARC re-affirmed its classification of Glass Fiber as a Group 3 substance '*not classifiable as to its carcinogenicity to humans*'. In addition, IARC re-classified most types of Fiber Glass Wool from Group 2B to Group 3. This decision was based on current carcinogenicity testing and epidemiological studies of man-made vitreous fibers, such as glass wool and glass fiber, which show no increased risk of cancer or mesothelioma.

ACGIH lists Continuous filament glass fibers as *A4- not classifiable as a human carcinogen*.

ACGIH lists Glass Wool Fibers as *A3- confirmed animal carcinogen with unknown relevance to humans*.

12. ECOLOGICAL INFORMATION

Not Determined

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded? Not regulated.

If yes, the RCRA ID number is: Not applicable

OTHER DISPOSAL CONSIDERATIONS: Burial or incineration.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

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14. TRANSPORT INFORMATION

US DOT HAZARD CLASS: Not regulated

US DOT ID NUMBER: Not applicable

For additional information on shipping regulations affecting this material, contact the information number found in Section 1.

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

TSCA INVENTORY STATUS: Ingredients are listed on TSCA Inventory.

OTHER TSCA ISSUES: None

SARA TITLE III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

<u>INGREDIENT NAME</u>	<u>CAS #</u>	<u>SARA/CERCLA RQ (lb)</u>	<u>SARA EHS TPQ (lb)</u>
Acenaphthene	83-32-9	100	
Anthracene	120-12-7	5000	
Benzo(a)anthracene	56-55-3	10	
Benzo(c)acridine	225-51-4	100	
Benzo(b)fluoranthene	205-99-2	1	
Benzo(k)fluoranthene	207-08-9	5000	
Benzo(j)fluoranthene	205-82-3	---	
Benzo(g,h,i)perylene	191-24-2	5000	
Benzo(a)pyrene	50-32-8	1	
Benzo(e)pyrene	192-97-2	---	
Chrysene	218-01-9	100	
Dibenz(a,h)anthracene	53-70-3	1	
Dibenzofuran	132-64-9	100	
Fluoranthene	206-44-0	100	
Fluorene	86-73-7	5000	
Indeno(1,2,3-cd)pyrene	193-39-5	100	
2-Methylnaphthalene	91-57-6	---	
Naphthalene	91-20-3	100	
Phenanthrene	85-01-8	5000	
Pyrene	129-00-0	5000	1000/10,000*

* See 40 CFR 355.30(2)(i)

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SECTION 311 HAZARD CLASS: Immediate, Delayed, Fire

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SARA 313 TOXIC CHEMICALS:

The following ingredients are SARA 313 "Toxic Chemicals". CAS numbers and weight percents are found in Section 2.

<u>INGREDIENT NAME</u>	<u>CAS #</u>	<u>WEIGHT %</u>
*Benzo(a)anthracene	56-55-3	0.1
*Benzo(b)fluoranthene	205-99-2	0.1 (includes (k))
*Benzo(k)fluoranthene	207-08-9	included above
Phenanthrene	85-01-8	0.2
Polycyclic Aromatic Compounds (20 compounds)	-	0.3

* Also included in "polycyclic aromatic compound" category

STATE RIGHT-TO-KNOW

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

<u>INGREDIENT NAME</u>	<u>WEIGHT %</u>	<u>COMMENT</u>
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No ingredients listed in this section

ADDITIONAL REGULATORY INFORMATION: California Proposition 65 material - Contains chemicals known to the State of California to cause cancer, birth defects, & other reproductive harm.

WHMIS CLASSIFICATION (CANADA): Class D, Division 2, Subdivision A
Class D, Division 2, Subdivision B

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

FOREIGN INVENTORY STATUS: Not Determined

16. OTHER INFORMATION

CURRENT ISSUE DATE: May 2005

PREVIOUS ISSUE DATE:

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

None

OTHER INFORMATION: None