

MATERIAL SAFETY DATA SHEET

Last Update: October, 2009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Emergency Contact: CHEMTREC **800-424-9300** ANSI 2400.1 Format

Product Name: Roof Guardian Technologies - Coal Tar Primer
 Item Number: RG-13
 Chemical Name: Refined coal tar and aromatic solvent mixture
 Comparable Products: Fortress Tar Primer #5405
 Company Information: STS Coatings, Inc.
 347 Hwy 289
 Comfort, TX 78013
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS NO.	% by Weight
Refined Coal Tar Pitch	65996-93-2	65 +/- 5
Aromatic Solvent	64742-85-6	35 +/- 5

Note: The above components and their percentages are provided for health and safety purposes ONLY. This document should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	HMIG	
	Health	3
	Flammability	2
	Reactivity	0
	Protective Equipment	B

Appearance & odor: A black, thin consistency liquid with an aromatic odor.

WARNING STATEMENTS: Combustible. Harmful or fatal if swallowed. Skin and eye irritant. Carcinogen.

POTENTIAL HEALTH EFFECTS:

Likely routes of exposure:

- EYE CONTACT:** Coal tar and aromatic solvent volatiles and mist may cause irritation to the eyes. Eye contact with product will result in irritation, which in the absence of recommended first aid, can result in minor burns to the eyes.
- SKIN CONTACT:** Coal tar and aromatic solvent – exposure causes skin irritation characterized by skin itching, burning, swelling and redness. Photosensitization of the skin may occur. This irritation has a burning sensation somewhat like sunburn and is accentuated by sunlight. Repeated or prolonged contact may contribute to conditions such as dermatitis, tar warts, and rough skin.
- INHALATION:** Coal tar and aromatic solvent volatiles – acute effects caused from overexposure may include coughing, sneezing, and swollen or irritated nasal mucus and sinuses. Repeated and/or prolonged contact to high concentrations may result in toxic effects, such as respiratory difficulties, convulsions and possible cardiovascular collapse may occur.
- INGESTION:** Unlikely route of entry. 3-5 oz may be fatal. Coal tar – may cause gastrointestinal tract irritation followed by nausea and vomiting, abdominal discomfort, rapid pulse, etc. In extreme cases, cardiovascular collapse may occur.

4. FIRST AID MEASURES

IF IN EYES: Flush with large amounts of water or mineral oil for 15 minutes, lifting upper and lower lids occasionally. Get medical attention. Inorganic particulates; quartz, etc, may cause mechanical irritation.

IF ON SKIN: If contact occurs, wash affected area with waterless hand cleaner. Thoroughly wash exposed area with soap and water. Remove contaminated clothing and wash clothing before reuse. If irritation persists, seek medical attention.

IF INHALED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. Seek medical attention.

IF INGESTED: **DO NOT** induce vomiting – aspiration hazard. If spontaneous vomiting occurs, be sure to keep victim’s head below hips to avoid aspiration of vomit into lungs, monitor for breathing difficulty. Give water or clear liquids. Get immediate medical attention or consult local Poison Control Center immediately.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 105°F Tag Closed Cup

FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: 0.5% UPPER: 6.7%

HAZARDOUS PRODUCTS OF COMBUSTIONS: H₂S, CO, CO₂, SOX and PAH's

EXTINGUISHING MEDIA: Foam CO₂, or dry chemical extinguishers. Use bunker gear and self-contained breathing apparatus. There is a potential for containers to rupture violently in fires. Vapors from product may explode if ignited in a confined space.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not direct water on substance. Water and foam may cause frothing. Treat as a fuel fire.

6. ACCIDENTAL RELEASE MEASURES

If your facility or operation has an “oil or hazardous substance contingency plan”, activate the procedure. Take immediate steps to stop and contain the spill.

- Shut off all sources of ignition.
- Keep people away.
- Recover free product with absorbents, vermiculite or other suitable absorbents.
- Minimize skin contact and avoid breathing vapors.
- Ventilate confined spaces.
- Keep product out of sewers and waterways by diking or impounding.
- Advise authorities if product has entered sewers, waterways or extensive land areas.
- Assure conformity with all applicable government regulations.
- Place in appropriate containers for disposal according to state, local or federal regulations.

7. HANDLING AND STORAGE

HANDLING: CONTENTS ARE COMBUSTIBLE. Use only in area provided with appropriate ventilation. Keep away from sources of ignition. Do not smoke. Keep out of reach of children. Material requires electrical grounding during material transfer process to prevent fire or explosion risk from static accumulation and discharge. All electrical equipment in storage and handling areas should be installed per NFPA Code.

STORAGE: Keep container tightly closed in a dry, cool and well-ventilated place. DO NOT store near heat, sparks, flame, or other source of ignition or strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses with unperforated sideshields or chemical splash goggles (ANSI Z87.1). DO NOT WEAR CONTACT LENSES in the presence of this material unless splash goggles are worn.

SKIN PROTECTION: Use apron to avoid contamination of clothing. Wear chemical resistant gloves to prevent prolonged contact with skin. Use of protective creams and sunscreen agents are recommended. Protective or “barrier creams” form a film that acts both as a chemical and physical “barrier” between the skin and the contaminant and tends to resist penetration of the contaminant into the pores of the skin. In Applying “barrier” creams, be sure the skin is clean and dry. Sunscreen agents filter out most of the ultra-violet rays from the sun.

RESPIRATORY PROTECTION: Respiratory protection is not generally required for this product when ventilation is adequate. However, if personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted respirator approved by NIOSH/MSHA for protection.

VENTILATION: Use with adequate ventilation. Local exhaust preferable. General exhaust acceptable. If ventilation cannot reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used.

AIRBORNE EXPOSURE LIMITS:	OSHA PEL	ACGIH TLV
Coal Tar (coal tar pitch volatiles)	0.2 mg/m ³ as 8-hr TWA	0.2 mg/m ³ as 8-hr TWA
Aromatic solvent	100 ppm	100 ppm

Note: All pigments, fillers, fibers, and extenders in this product are totally encapsulated and do not pose a respirable dust hazard during installation and use of this product.

Components referred to herein, may be regulated by specific Canadian provincial legislation. Please refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL FORMULA:	not applicable, mixture
APPEARANCE:	A black, thin consistency liquid
ODOR:	aromatic odor
pH:	not applicable
MELTING POINT:	not applicable
VAPOR DENSITY:	greater than 8.4
SOLUBILITY IN WATER:	less than 0.5%

NOTE: These physical data are typical values based on material testing, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY:	stable
CONDITIONS TO AVOID:	Keep containers tightly closed. Avoid extreme heat.
MATERIALS TO AVOID:	Strong oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:	H ₂ S, CO, CO ₂ , SOX and PAH's
HAZARDOUS POLYMERIZATION:	none

11. TOXICOLOGICAL INFORMATION

Oral – rat LD50 (mg/kg):	no data available
Dermal – rabbit LD50 (mg/kg):	no data available
Eye irritation – rabbit:	no data available
Skin irritation – rabbit (24-hr exposure):	no data available

Note: Coal tar pitch volatiles, soots, tars and oils are listed as a carcinogenic category by OSHA, ACGIH, the National Toxicological Program (NTP) and the international Agency for Research on Cancer (IARC). Prolonged or repeated contact may lead to dermatitis; and with poor hygienic practices, to more serious skin disorders such as ulcerations, benign skin growths and skin cancer.

12. ECOLOGICAL INFORMATION

This product may cause adverse environmental effects if used improperly or released into the environment through a spill. Employ best management practices to prevent this material from entering storm sewer systems, waterways or otherwise impacting plant and animal species.

13. DISPOSAL CONSIDERATIONS

Dispose of in an environmentally safe manner and in accordance to governmental regulations. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. For work on tanks, refer to OSHA regulation ANSI Z49.1 and other

governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

This is RCRA regulated hazardous waste [D001 Ignitable per 40 CFR 260.21] and must be disposed in a permitted facility. Containers are hazardous waste if not emptied completely (less than 1 inch of residue).

The transportation, storage, treatment and disposal of this waste must be conducted in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT: Non-bulk packages are exempt from DOT HM-181 shipping requirements.
 CANADIAN TDG: Not determined.

15. REGULATORY INFORMATION

SARA HAZARD NOTIFICATION:

Hazardous Categories Under Title III Rules (40 CFR 370): Not applicable
 Section 302 Extremely Hazardous Substances: Not applicable
 Section 313 Toxic Chemicals: Yes

WHMIS CLASSIFICATION: Not determined

DSL INVENTORY: Not determined

TSCA INVENTORY: Not determined

CERCLA REPORTABLE QUANTITY:	<u>Component</u>	<u>% by Wt.</u>
	Naphthalene	< 0.1%
	Phenanthrene	approx 1.3%
	PAC (polycyclic aromatic compounds)	< 0.1%

CA Proposition 65 Warning: This product may contain chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of OSHA Hazard Communication Standard (29 CFR 1910.1200).

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA ¹ Rating	3	2	0	
Suggested HMIS ¹ Rating	3	2	0	

The information and recommendations contained herein are to the best of STS Coatings, Inc. knowledge and belief, accurate and reliable as of the date issued. STS Coatings, Inc. Does not warrant or guarantee their accuracy or reliability, and STS Coatings, Inc. shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the user's responsibility to make certain that it is relying up on the most recent, updated, information and recommendations available from STS Coatings, Inc.

For Other Product Information Contact:
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¹ Hazard Ratings: least = 0 slight = 1 moderate = 2 high = 3 extreme = 4 Based upon NPCA guidelines