

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 - Aluminum Roof Coating
 Item Number: RG-51
 Chemical Name:
 Comparable Products: Unicoat Aluminum Fibered Roof Coating
 Company Information: STS Coatings, Inc.
 347 Hwy 289
 Comfort, TX 78013
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS NO.	EXPOSURE LIMITS		VAPOR PRESSURE		% by Weight
		OSHA PEL	ACGIH TLV	mm Hg @ Temp		
Mineral Spirits	8052-41-3	100 PPM	100 PPM	2.0	60F	38.0
Mica	12001-26-2			n/a	n/a	16.0
Aluminum Paste	mixture	100 PPM		10	77°F	13.0
Asphalt (petroleum)	8052-42-4		5.0	n/a	n/a	29.0

There are no SARA 313 ingredients in this material in excess of de minimus amounts.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

HMIG
 Health 1
 Flammability 2
 Reactivity 1
 Protective
 Equipment G

Signs & symptoms of overexposure are headache, dizziness, nausea, and loss of coordination. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

POTENTIAL HEALTH EFFECTS:

Likely routes of exposure: Inhalation, skin contact

EYE CONTACT: Prolonged or repeated contact can cause drying and irritation.

SKIN CONTACT: Prolonged or repeated contact can cause irritation and dermatitis.

INHALATION: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness and asphyxiation. May effect central nervous system, including weakness, loss of memory, jitters, unconsciousness or effects mimicking drunkenness.

INGESTION: May cause mouth, throat, and gastrointestinal tract irritation, nausea, vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC): Aspiration of the mineral spirits portion of this product into the lungs can cause severe chemical pneumonitis which could be fatal.

CALIF. PROP 65. CHEMICAL WARNING: This product contains chemicals known to the state of California to cause cancer, birth defects or reproductive harm.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Persons with a preexisting central nervous system disease, chronic skin or respiratory disorders may be at increased risk for worsening their conditions from exposure to this product.

4. FIRST AID MEASURES

IF IN EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. Get medical attention immediately.

IF ON SKIN: Thoroughly wash exposed area with waterless hand cleaner, then wash thoroughly with soap and water. Remove contaminated clothing and contact with skin could cause second degree burns.

IF INHALED: If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If not breathing, administer artificial respiration and 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. Get immediate medical attention. NOTE TO PHYSICIAN: Perform gastric lavage in accordance with procedures for ingestion of petroleum products.

5. FIRE FIGHTING MEASURES

FLASH POINT: 105°F DOT CATEGORY: Combustible Liquid NA1993 METHOD USED: SETA
FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER: 0.9% UPPER: 6.0

EXTINGUISHING MEDIA: Co2, Foam, Dry Chemical.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool containers exposed to fire to prevent pressure build-up.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT USE A WATER HOSE STREAM, DO NOT USE HALOGENATED EXTINGUISHING AGENTS on product where the aluminum flake has started to burn. Dry aluminum flake will react with water and acids to form hydrogen gas and heat.

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 sorbents, 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: MATERIAL IS COMBUSTIBLE. Vapors of mineral spirits are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. Keep away from heat, sparks, and open flame during use and until all vapors are gone. Keep area ventilated. Do not smoke. Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and any other sources of ignition. Take precautionary measures against static discharges. Ground and bond containers when transferring material. Consult NFPA Code.

Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses with unperforated sideshields.

SKIN PROTECTION: Use apron to avoid contamination of clothing. Wear protective gloves to prevent prolonged contact with skin.

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 organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

VENTILATION: Use with adequate ventilation. Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

9. PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY (H₂O = 1): 1.10 EVAPORATION RATE: Slower than Ether
 BOILING POINT (F): 310 - 400°F 148 - 218°C
 VAPOR DENSITY: Heavier than air
 SOLUBILITY IN WATER: Insoluble
 APPEARANCE AND ODOR: Black asphalt/aluminum with a mineral spirit odor.
 COATING VOC: 420 g/l

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: Isolate from heat, electrical equipment, sparks and open flame. Keep containers tightly closed.
 MATERIALS TO AVOID: Strong oxidizers.
 HAZARDOUS DECOMPOSITION PRODUCTS: Normal combustion products including CO₂, CO, and various hydrocarbon fragments.
 HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS:
 No ingredient in this product is an IARC, NTP, or OSHA listed carcinogen. Some animal studies with poor controls have indicated that Bitumens (asphalt) cause tumors, however, there is inadequate evidence that Bitumens alone are carcinogenic to humans.

Prolonged overexposure may effect central nervous system, including weakness, loss of memory, jitters, unconsciousness or effects mimicking drunkenness.

12. ECOTOXICOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
 Dispose of in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

No data available.

15. REGULATORY INFORMATION

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION – All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

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.

16. OTHER INFORMATION

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

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.

The Environmental Information included as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings, have been included by STS Coatings, Inc. in order to provide additional health and hazard classification information. The ratings recommended are based up on the criteria supplied by the developers of these rating systems, together with STS Coatings, Inc.'s interpretation of the available data.

For Other Product Information Contact:

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