



H.M.I.S. RATING	
Health	1*
Flammability	2
Reactivity	1
Protective Equip.	C

Material Safety Data Sheet – OSHA 174

Material Safety Data Sheet

May be used to comply with OSHA's Hazard communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form) Form Approved
OMB No. 1218-0072

SealMaster Fibered Aluminum Roof Coating

Product #: F2060

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Manufacturer's Name: Thorworks, Inc.	Telephone Number for General Information: 1-800-326-1994
Address: 2520 S. Campbell St. Sandusky, OH 44870	Emergency Spill Telephone No.: Chemtrec: 1-800-424-9300
Date Prepared: January 27, 2009	
Chemical Name: Mixture of asphalt, mineral spirits, aluminum pigment, filler, and cellulose fibers	

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	CAS #	% By Weight	
Petroleum asphalt	8052-42-4	40 +/- 5	
Mineral spirits	64742-88-7	45 +/- 5	
Fillers and Fibers	mixture	20 +/- 5	
Aluminum Pigment	7429-90-5	20 +/- 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.

SECTION III - HAZARD IDENTIFICATION	
Emergency Overview: Appearance and odor: When mixed, bronze to silver colored medium bodied liquid with a slight petroleum odor.	
Warning Statements: COMBUSTIBLE, HARMFUL OR FATAL IF SWALLOWED, SKIN IRRITANT	
Potential health effects	
Likely Routes of Exposure:	
Eye contact: Conjunctivitis, irritation, tearing burning.	
Skin contact: Irritation or inflammation. Allergic skin reactions may occur. Dermatitis.	
Inhalation: Irritation to mucous membranes and respiratory tract, nausea, dizziness, and headache.	
Ingestion: Unlikely route of entry. 3-5 oz. may be fatal.	
Refer to Section XI for toxicological information.	

SECTION IV - FIRST AID MEASURES	
IF IN EYES: Immediately flush with large amounts of potable water. Eyelids should be held away the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.	
IF ON SKIN: Remove contaminated clothing and wash with soap and water.	
IF INHALED: Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, give oxygen. Get medical attention.	
IF INGESTED: Do not induce vomiting- aspiration hazard. If spontaneous vomiting occurs, monitor for breathing difficulty. Get immediate medical attention. 3-5 ounces may be fatal.	

SECTION V - FIRE FIGHTING MEASURES

Flash Point: 105° F Tag Closed Cup LEL – 0.9% UEL 6.7%

Hazardous products of combustions: H²S , CO, CO² and SOX

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 & Explosion Hazards: Do not direct water on substance. Water and foam may cause frothing. Treat as a fuel fire.

SECTION VI - ACCIDENTAL RELEASE MEASURES

If your facility or operation has an “oil or hazardous substance contingency play”, activate the procedure. Take immediate steps to stop and contain the spill. Shut off all sources of ignition.

- Keep people away
- Eliminate sources of ignition
- Recover free product, add limestone, earth, 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
- Dispose of in an approved facility, see Section 13, Disposal Considerations.

SECTION VII - HANDLING AND STORAGE

HANDLING: Keep containers cool, dry and away from sources of ignition. Use this product with adequate ventilation. Material is COMBUSTIBLE. 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 requirements.

STORAGE: Keep containers tightly closed when not in use. DO NOT STORE NEAR HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION OF STRONG OXIDIZERS.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTIONS

Eye protection: Wear chemical splash goggles (ANSI Z87.1) or safety glasses when working with or transferring this product. DO NOT WEAR CONTACT LENSES IN THE PRESENCE OF THIS MATERIAL UNLESS SPLASH GOGGLES ARE WORN.

Skin protection: Use chemical resistant gloves, to avoid prolonged or repeated skin contact.

Respiratory protection: Use NIOSH or MSHA approved respiratory protective equipment when airborne exposure limits are exceeded.

Ventilation: Ventilation may be used to reduce airborne concentrations. If ventilation can not reduce airborne concentrations below acceptable, limits, appropriate respiratory protection should be used.

Airborne exposure limits:	OSHA PEL	ACGIH TLV
Mineral spirits	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.

SECTION IX- PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula: Not applicable, mixture

Appearance: When mixed, bronze to silver medium bodied liquid

Odor: Mild hydrocarbon odor

pH: Not applicable

Melting Point: Not applicable

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.

SECTION X - STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Strong oxidizers, heat, spark or open flame.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrogen sulfide and sulfur Dioxide.

Hazardous Polymerization: Will not occur.

SECTION XI - 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.

SECTION XII - ECOLOGICAL INFORMATION

This product may cause adverse environmental effects if used improperly or release to 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.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of in an environmentally safe manner and in accordance with 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.

SECTION XIV - 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.

SECTION XV - REGULATORY INFORMATION

TSCA INVENTORY: Not determined

DSL INVENTORY: Not determined

WHMIS CLASSIFICATION: Not determined

SARA HAZARD NOTIFICATION:

Hazardous Categories Under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

CERCLA REPORTABLE QUANTITY: Component % by Wt.
Not applicable

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 XI for OSHA/HPA Hazardous Chemical(s) and Section XIII for RCRA classification.

SECTION XVI - OTHER INFORMATION

This material has been defined as a hazardous chemical under the criteria of the 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	1	2	1	
Suggested HMIS ¹ Rating	1	2	1	
Reason for revision: N/A			Supersedes MSDS Dated: N/A	

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

The information and recommendations are offered for the users 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 upon the most recent, updated, information and recommendations available from THORWORKS.

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

For Other Product Information Contact:

ThorWorks Inc.
2520 S. Campbell St.
Sandusky, OH 44870
1-800-326-1994