

SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sheet Membrane

Product Code: MK-62

WESTCOAT SPECIALTY COATING SYSTEMS

4007 Lockridge St
San Diego, CA 92102

Information Telephone: 844-537-7203

Emergency Telephone: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

GHS Ratings:

Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: $\geq 1.5 < 2.3$
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Carcinogen	2	Limited evidence of human or animal carcinogenicity

EMERGENCY OVERVIEW: Product is not flammable but will burn under fire conditions. Contact with heated product may cause thermal burns. Inhalation of vapors from heated product may cause irritation of the nose, throat and respiratory system.

GHS Hazards

H316	May cause mild skin irritation
H320	May cause eye irritation
H351	Suspected of causing cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash ... thoroughly after handling
P281	Use personal protective equipment as required
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool

Signal Word: Warning



Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Asphalt	8052-42-4	60.00% - 70.00%
Limestone	1317-65-3	10.00% - 20.00%

Section 4 - FIRST AID MEASURES

First aid measures for different exposure routes

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

EYE CONTACT: Immediately flush eyes with plenty of water for a least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cups full of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

Section 5 - FIRE-FIGHTING MEASURES

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 is not flammable but 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, benzaldehydes, aldehydes, ketones and unidentified organic compounds may be formed on combustion.

EXPLOSION DATA (sensitivity to mechanical impact or static discharge): None known.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate protective clothing as described in Section 8. Pick up and place into an appropriate container for disposal. If product becomes molten,

allow product to cool before picking or scraping up.

WASTE DISPOSAL METHODS: Obey relevant federal, state and local laws. Do not contaminate any lakes streams, ponds or underground water supplies.

PRECAUTIONS: Avoid personal contact. Keep out of reach of children. Remove all sources of ignition. Ensure adequate ventilation.

Section 7 - HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Avoid contact with the eyes and skin. Avoid breathing vapors, mists or fumes. If product is heated, use with adequate ventilation. Wash with soap and water after use. Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

CONDITIONS FOR SAFE STORAGE: Store in a cool, well ventilated area away from excessive heat and sources of ignition. Do not enter confined storage areas without proper precautions including atmospheric testing.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Asphalt 8052-42-4	Not Established	0.5 mg/m ³ TWA (fume, inhalable fraction, as benzene soluble aerosol)	NIOSH: 5 mg/m ³ Ceiling (fume, 15 min)
Limestone 1317-65-3	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)

Individual protection measures, such as personal protective equipment

VENTILATION: 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/MSHA 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: If heated, wear leather gloves to prevent thermal burns.

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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<p>Appearance : Solid w/polyethylene sheeting on one side</p> <p>Odor threshold : N/A</p> <p>Melting point : 220°F (104°C) (Softening Point)</p> <p>Flash Pt(F/C) : >320°F</p> <p>Flammability (solid, gas) : N/A</p> <p>Vapor pressure : N/A</p> <p>Relative density : 1.88</p> <p>Partition coefficient:n- N/A octanol/water :</p> <p>Decomposition temp : N/A</p>	<p>Odor : Odorless</p> <p>PH : N/A</p> <p>Boiling point : N/A</p> <p>Evaporation rate : N/A</p> <p>LEL/UEL : N/A</p> <p>Vapor density : N/A</p> <p>Solubility : Insoluble</p> <p>Autoignition temp : N/A</p> <p>Viscosity : N/A</p>
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Section 10 - STABILITY AND REACTIVITY

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, benzaldehydes, aldehydes, ketones and unidentified organic compounds.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Component Toxicity

Exposure to this material may affect the following organs:

INGESTION: No adverse effects are expected from normal use. Swallowing may cause gastrointestinal 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 tumorigenic 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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Employees with pre-existing skin and respiratory disorders may be at increased risk from exposure.

Section 12 - ECOLOGICAL INFORMATION

Component Ecotoxicity

None

Section 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Obey relevant federal, state and local laws. Do not contaminate any lakes streams, ponds or underground water supplies.

Section 14 - TRANSPORT INFORMATION

This material is classified for transport as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Non-Regulated Material			

Section 15 - REGULATORY INFORMATION

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

CERCLA-SARA Hazard Category: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- None

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- None

Section 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	1	HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH
FLAMMABILITY	1	
PHYSICAL HAZARD	0	
PERSONAL PROTECTION	X	

Westcoat Specialty Coating Systems believes, to the best of its knowledge, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Westcoat Specialty Coating Systems makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Date Prepared: 2/18/2021