Safety Data Sheet (SDS)
Seal Coat Supply, Inc.

Tuff Coat

SDS Number: 540 Revision Date: 3/22/2016

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Seal Coat Supply, Inc.
1735 W 1000 N
Layton, UT 84041

Contact: Seal Coat Supply, Inc.
Phone: (801) 546-1839
Web: www.sealcoatsupply.com

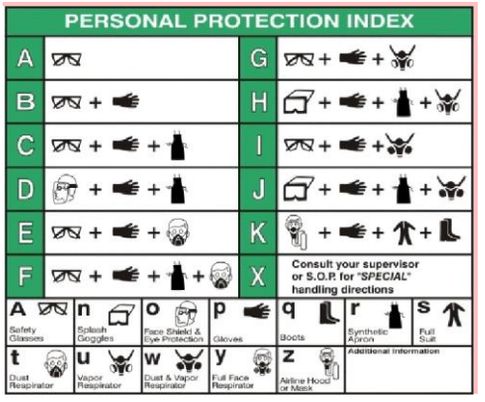
Product Name: Tuff Coat
Revision Date: 3/22/2016
Version: 1
SDS Number: 540
Common Name: Mineral Reinforced Inorganic Polymer
CAS Number: MIXTURE
Chemical Family: Hydrocarbon / Inorganic Solids Blend
Chemical Formula: *** PROPRIETARY ***
Product Use: Construction materials used in asphalt sealing applications.

Emergency Phone: (801) 546-1839

2 HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 1, Fire = 0, Reactivity = 0
H*1/F0/PH0



GHS Signal Word:
WARNING

GHS Hazard Pictograms:

GHS Classifications:
Health, Skin corrosion/irritation, 2
Health, Skin sensitization, 1
Health, Serious Eye Damage/Eye Irritation, 2 A

GHS Phrases:
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

GHS Precautionary Statements:
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplementary first aid instructions on this label).
P333+313 - If skin irritation or a rash occurs: Get medical advice/attention.
P337+313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P403+233 - Store in a well ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 43.3 °C/110 °F
P501 - Dispose of contents/container to an approved waste disposal plant.

Health Hazards: Not to be expected if handled and used properly. The GHS health hazards assigned to this product only apply to the concentrated, uncured material. When this product is applied as directed by the manufacturer, and allowed to cure, it attributes no hazards regarding skin irritation, skin sensitization, or eye irritation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
N/A	40%	Trade Secret Inorganic Filler*
N/A	29-49%	Proprietary, non-hazardous, non-regulated**
8052-42-4	10-30%	Asphalt
1333-86-4	<1%	Carbon black

*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.
**Balance of ingredients are non-hazardous, as defined by OSHA 29CFR1910.1200 or the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), or hazardous in less than 1% concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory/skin sensitizers).

4 FIRST AID MEASURES

Inhalation: Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Take off contaminated clothing and shoes immediately. Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening or a rash develops and/or persists, obtain medical attention.

Eye Contact: Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. If irritation or pain persists, get immediate medical attention and continue rinsing eyes during transport to hospital.

Ingestion: Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more water or milk. Never give anything by mouth to an unconscious person. If symptoms develop and/or persist, obtain medical attention.

Most important symptoms and effects, both acute and delayed:
The most important known symptoms and effects are described in the labeling (see Section 2) and/or Section 11.

Indication of any immediate medical attention and special treatment needed:
No data available.

5 FIRE FIGHTING MEASURES

Flammability:	Not flammable
Flash Point:	DNA
Flash Point Method:	DNA
Burning Rate:	No data available
Autoignition Temp:	No data available
LEL:	DNA
UEL:	DNA

Extinguishing Media:
Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:
Aluminum Oxides*
Boron Oxides*
Calcium Oxides*
Carbon Oxides
Chromium Oxides*
Hydrogen Sulfide gas
Iron Oxides*
Lithium Oxides*
Magnesium Oxides*
Manganese Oxides*
Nitrogen Oxides (NOx)
Phosphorus Oxides*
Potassium Oxides*

Silicon Oxides*
Sodium Oxides
Sulfur Oxides
Unburnt Hydrocarbon particulate
Vanadium Oxides*
Zirconium Oxides*

*Elements are most likely to be tightly bound within the lattice structures of the Trade Secret Inorganic Filler, and while the incineration of this material is possible, the formation of their respective hazardous oxides is unlikely outside of a laboratory environment where they can be isolated.

Advice for Firefighters:
Firefighters should wear full-face, positive-pressure respirators.

Further Information:
If incinerated, may release toxic fumes.
Use water spray to cool unopened containers.
See Section 7 for more information on safe handling.
See Section 8 for more information on personal protection equipment.
See Section 13 for disposal information.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:
Use personal protective equipment.
Use respiratory protection, such as a vapor respirator, if managing any spills in confined, poorly-ventilated spaces.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Treat all vapors as toxic; keep upwind of any spills at all times.

Environmental Precautions:
Prevent further release (leakage/spillage) if safe to do so.
Do not allow product to enter drains.
Do not allow to drain to environment.

Methods and Materials for Containments and Cleaning Up:
Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).
Place contaminated material into suitable, closed containers for disposal.
Dispose of contaminated material according to Section 13.
After spillage has been collected, area may be flushed with water or wet-brushed.
Ensure adequate ventilation.

Reference to Other Sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on proper disposal.

7 HANDLING AND STORAGE

Handling Precautions:

Avoid breathing vapors or mist.
Avoid contact with eyes, skin, or clothing.
Use approved, original containers only.
Keep containers closed when not in use.
Do not expose containers to open flame, excessive heat, or direct sunlight.
Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements:

Keep away from heat, sparks and flames.
Do not store in direct sunlight.
Store at temperatures not exceeding 43.3 °C (110.0 °F)
Store away from strong acids, strong oxidizing agents and Hydrofluoric acid.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip:

Eye/face protection:
When using material use safety glasses and gloves according to HMIS PP, B. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:
Handle with gloves made from Neoprene, Nitrile or Buma rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:
Chemically resistant gloves and safety glasses are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:
Not required if area of use is well-ventilated. A full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds.

Control of environmental exposure:
Prevent leakage or spillage if safe to do so.

Components with workplace control parameters:

Component(s): Carbon black*
CAS No(s): 1333-86-4
USA NIOSH (TWA/REL): 3.5 mg/m^3

USA ACGIH (TWA/TLV): 3.0 mg/m^3
USA OSHA Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants (TWA): 3.5 mg/m^3

*****Exposure limits for Carbon black are associated with the potential inhalation hazards of Carbon black in solid, dust form. Dust from cured coatings may contain traces of isolated Carbon black, but this is considered an unlikely event due to the Carbon black being bound in the other materials found in this product.

Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black, thixotropic liquid		
Physical State:	Liquid	**Odor:**	Mild
Odor Threshold:	Not determined	**Molecular Formula:**	MIXTURE
Particle Size:	Not determined	**Solubility:**	Moderate
Spec Grav./Density:	1.318 - 1.678 g/ml (11.00 - 14.00 lbs/ga	**Softening Point:**	Not determined
Viscosity:	Not determined	**Percent Volatile:**	<45%
Sat. Vap. Conc.:	Not determined	**Heat Value:**	Not determined
Boiling Point:	-100.0 °C (212.0 °F)	**Freezing/Melting Pt.:**	Not determined
Flammability:	(solid, gas): Not flammable	**Flash Point:**	DNA
Partition Coefficient:	Not determined	**Octanol:**	Not determined
Vapor Pressure:	(mm Hg @ 20 °C): Not determined	**Vapor Density:**	(air = 1): < 1
pH:	@ 100%: 3 - 12	**VOC:**	0 g/l
Evap. Rate:	(N-Butyl Acetate = 1): < 1	**Bulk Density:**	Not determined
Molecular weight:	MIXTURE	**Auto-Ignition Temp:**	Not determined
Decomp Temp:	Not determined	**UFL/LFL:**	DNA

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Strong acids, strong oxidizing agents and Hydrofluoric acid.
Hazardous Decomposition:	Aluminum Oxides*, Boron Oxides*, Calcium Oxides*, Carbon Oxides, Chromium Oxides*, Hydrogen Sulfide gas, Iron Oxides*, Lithium Oxides*, Magnesium Oxides*, Manganese Oxides*, Nitrogen Oxides (NOx), Phosphorus Oxides*, Potassium Oxides*, Silicon Oxides*, Sodium Oxides, Sulfur Oxides, Unburnt Hydrocarbon particulate, Vanadium Oxides* and Zirconium Oxides*. *Elements are most likely to be tightly bound within the lattice structures of the Trade Secret Inorganic Filler, and while the decomposition of this material through incineration is possible, the formation of their respective hazardous oxides is unlikely outside of a laboratory environment where they can be isolated.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Trade Secret Inorganic Filler; Asphalt; Carbon black
CAS No(s): N/A; 8052-42-4; 1333-86-4

Acute Toxicity:
LD50 Oral - Rat: > 5,000 mg/kg LD50
Dermal - Rat: > 2,000 mg/kg LD50
Dermal - Rabbit: > 3,000 mg/kg

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Eye Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitation: May cause an allergic skin reaction in certain sensitive individuals in cases of prolonged or repeated exposure.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Skin application of asphalt fume condensate fractions caused skin tumors in laboratory mice. Animal studies in which high concentrations of asphalt fumes were breathed for extended periods of time did not cause carcinogenic effects. The NTP, OSHA and IARC have concluded that there is inadequate evidence to suggest that asphalt alone is carcinogenic to humans. This product contains small quantities of Polycyclic Aromatic Hydrocarbons (PAH's), which have been shown to be a human health risk. Health surveys and human experience indicate no cases of lung of skin cancers as a result of asphalt exposure.

Carcinogenicity Inhalation - Rat: Tumorigenic; Carcinogenic by RTECS criteria - Lungs, thorax or respiration tumors.

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification (Carbon black). This carcinogenicity hazard is associated with the potential inhalation hazards of Carbon black in solid, dust form. Dust from cured coatings may contain traces of isolated Carbon black, but this is considered an unlikely event due to the Carbon black being bound in the other materials found in this product.

IARC: 28 - Group 28: Possibly carcinogenic to humans (Carbon black).
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ONTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity · Single Exposure: Respiratory system - May cause respiratory irritation.

Specific Target Organ Toxicity · Repeated Exposure: No data available.

Aspiration Hazard: No data available.

Additional Information:
Component: Trade Secret Inorganic Filler; RTECS: N/A
Component: Asphalt; RTECS: CI9900000
Component: Carbon black; RTECS: FF5800000

12 ECOLOGICAL INFORMATION

Component(s): Trade Secret Inorganic Filler; Asphalt; Carbon black
CAS No(s): N/A; 8052-42-4; 1333-86-4

Toxicity:

Toxicity to fish:
LC50 - Danio rerio (Zebra Fish): > 1,000 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:
Static Test EC50 - Daphnia magna (Water Flea): > 5,600 mg/l (24 h)

Toxicity to algae:
Static Test EC50 - Desmodesmus subspicatus (Green Algae): > 10,000 mg/l (?2 h)

Persistence and Degradability:
No data available.

Bioaccumulative potential:
No data available.

Mobility in Soil:
No data available.

Results of PBT and vPvB assessment:
Not required/conducted

Other Adverse Effects:
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13 DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

14 TRANSPORT INFORMATION

DOT (US)
Non-regulated material, liquid

IMDG
Non-regulated material, liquid

IATA
Non-regulated material, liquid

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

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*Trade Secret Inorganic Filler (N/A 40%) MASS, NJHS, PA, TSCA

*Asphalt (8052424 10-30%) MASS, NJHS, NRC, PA, PROP65, SARA311/312, TSCA, TXAIR

*Carbon black (1333864 <1%) MASS, NJHS, OSHAWAC, PA, PROP65, SARA311/312, TSCA, TXAIR

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
NJHS = New Jersey Right to Know Hazardous Substances
NRC = Nationally Recognized Carcinogens
OSHAWAC = OSHA Workplace Air Contaminants
PA = PA Right-To-Know List of Hazardous Substances
PROP65 = CA Prop 65
SARA311/312 = SARA 311/312 Toxic Chemicals
TSCA = Toxic Substances Control Act
TXAIR = TX Air Contaminants with Health Effects Screening Level

16 OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that Seal Coat Supply, Inc. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of Seal Coat Supply, Inc.'s control, Seal Coat Supply, Inc. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

Preparation Information:

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