

SAFETY DATA SHEET

Prepared in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200

SECTION 1: IDENTIFICATION

PRODUCT	TIRE RUBBER MODIFIED SURFACE SEAL
SYNONYMS	TRMSS
RECOMMENDED USE	Asphalt Sealer
RECOMMENDED RESTRICTIONS	No Information Available

MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION

MANUFACTURER	GuardTop, LLC
ADDRESS	30012 Ivy Glenn Dr., Suite 145 Laguna Niguel, CA 92677
WEBSITE	www.guardtop.com
TELEPHONE	949-218-4319
24-HOUR EMERGENCY	CHEMTREC North America 1-800-424-9300; International 1-703-527-3887

SECTION 2 : HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW
HEALTH HAZARDS

This product is a tan to dark brown viscous liquid with a mild odor. Exposure to this product can be irritating to the eyes, respiratory system, and skin. Heated material can cause thermal burns. Heated material may liberate hydrogen sulfide. Long-term exposure to high concentrations of asphalt fumes may cause chronic bronchitis and pneumonitis.

ENVIRONMENTAL HAZARDS

The environmental effects of this product have not been investigated. This material is not expected to be toxic to aquatic organisms.

LABEL ELEMENTS

US DOT Symbol

Non-Regulated

Canada (WHMIS)Symbol



European and GHS Hazard Symbol



Signal Word Warning!

GHS Hazard Classification(s)
Hazard Statements

Acute Toxicity Inhalation Category 4
 H319: Causes serious eye irritation
 H315: Causes skin irritation
 H332: Harmful if inhaled
 H335: May cause respiratory irritation

Precautionary Statements

P260: Do not breathe dust/fume/gas/mist/vapors/spray
 P264: Wash hands thoroughly after handling
 P271: Use only in well-ventilated area
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Hazard Symbol(s)

Warning
 * Harmful if Inhaled

Risk Phrases

R26: Very toxic by inhalation
 R36/37/38: Irritating to eyes, respiratory system and skin

Safety Phrases

S24/25: Avoid contact with skin and eyes

Material Name: TIRE RUBBER MODIFIED SURFACE SEAL

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S36: Wear suitable protective clothing
 S37/39: Wear suitable gloves and eye/face protection
 S45: In case of accident or if you feel unwell, seek medical advice immediately.

SUPPLEMENTAL INFORMATION

Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN SULFIDE (H₂S) can be harmful or fatal if inhaled. H₂S is a flammable gas.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS NUMBER	PERCENT
WATER		7732-18-5	53-61
PETROLEUM ASPHALT	Bitumen, Asphalt, AsphaltCement	8052-42-4	30-38
GROUND TIRE RUBBER		133-86-4	5
NAPHTHENIC/AROMATIC OIL		64742-0407	<0.5
CARBON BLACK		1333-86-4	<0.3
ZINC OXIDE		1314-13-2	<0.05
SEPOLITE CLAY		63800-37-2	< 4.0
FATTY AMINE SALT		TSCA Listed	<0.5

COMPOSTION COMMENTS

Values do not reflect absolute minimums and maximums; these values are typical and may vary from time to time. Asphaltic materials can contain hydrogen sulfide, because it is naturally occurring in the crude oil from which asphalt is derived. Hydrogen sulfide can also be present as a byproduct of asphalt processing. This Safety Data Sheet is intended to communicate potential health hazards and potential physical hazards associated with the product(s) covered by this sheet, and it not intended to communicate product specific information.

SECTION 4 : FIRST-AID MEASURES

INHALATION

If respiratory symptoms develop from exposure to fumes, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is no breathing, clear airway and immediately begin artificial respiration. If breathing becomes difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

SKIN CONTACT

If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of asphalt. Wash contact areas with soap and water. If needed, seek medical attention.

EYE CONTACT

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. If irritation or redness develops from exposure to fumes, move victim away from exposure and into fresh air. Flush eyes with clean water.

INGESTION

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Direct contact with eyes may cause temporary irritation.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

GENERAL INFORMATION

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Foam. Dry chemical powder. Carbon dioxide (CO₂).

UNSUITABLE EXTINGUISHING MEDIA

Water. Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Fire may cause irritating and toxic gases or fumes may be released, including H₂S..

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection.

FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS

ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use of foam or water may cause frothing.

SPECIFIC METHODS

In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

This product is miscible in water.

LARGE SPILLS: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.

SMALL SPILLS: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Ventilate area and avoid breathing vapors or mist. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

ENVIRONMENTAL PRECAUTIONS Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid prolonged exposure. Use only in well-ventilated areas. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Do not allow material to freeze.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
PETROLEUM ASPHALT (CAS 8052-42-4)		Not Listed

US. ACGIH THRESHOLD LIMIT VALUES

Components	Type	Value	Form
PETROLEUM ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m ³	Inhalable fraction

US. NIOSH: POCKET GUIDE TO CHEMICAL HAZARDS

Components	Type	Value	Form
PETROLEUM ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m ³	Fume

BIOLOGICAL LIMIT VALUES

No biological exposure limits noted for the ingredient(s).

APPROPRIATE ENGINEERING CONTROLS

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Avoid confined spaces.

RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION	Safety glasses. Wear chemical goggles if there is a risk of splashes.
HAND PROTECTION	Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.
OTHER	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact. Plastic or rubber gloves, apron and boots.
RESPIRATORY PROTECTION	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
THERMAL HAZARDS	Wear appropriate thermal protective clothing, when necessary.

GENERAL HYGIENE CONSIDERATIONS

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Brown/black liquid
PHYSICAL STATE	Liquid
COLOR	tan to dark brown
ODOR	Mild
ODOR THRESHOLD	Not Available
pH	7-9
MELTING POINT/FREEZING POINT	Not Available
INITIAL BOILING POINT	212°F (100 °C)
FLASH POINT	400.0 °F (204.4 °C) COC
EVAPORATION RATE	< 1
FLAMMABILITY (SOLID, GAS)	Not Available
FLAMMABILITY LIMIT – LOWER (%)	Not Available
FLAMMABILITY LIMIT - UPPER (%)	Not Available
EXPLOSIVE LIMIT – LOWER (%)	Not Available
EXPLOSIVE LIMIT – UPPER (%)	Not Available
VAPOR PRESSURE	< 1 mm Hg at 70°F
VAPOR DENSITY	> 1
RELATIVE DENSITY	0.8 - 1.10
SOLUBILITY (WATER)	Soluble
PARTITION COEFFICIENT (n-octanol/water)	Not Available
AUTO-IGNITION TEMPERATURE	> 700 °F (> 371.11 °C)
DECOMPOSITION TEMPERATURE	Not Available
VISCOSITY	Not Available

SECTION 10: STABILITY & REACTIVITY

REACTIVITY

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY

Stable under normal temperature conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous polymerization does not occur.

CONDITIONS TO AVOID

Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat product.

INCOMPATIBLE MATERIALS

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen sulfide.

SECTION 11: TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

INGESTION	Expected to be a low digestion hazard.
INHALATION	Prolonged inhalation may be harmful.
SKIN CONTACT	No adverse effects due to skin contact are expected.
EYE CONTACT	Harmful if contacted with eyes.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Not available

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	Not available
SKIN CORROSION/IRRITATION	Prolonged skin contact may cause temporary irritation.
SERIOUS EYE DAMAGE/EYE IRRITATION	Contact with eyes harmful.

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY SENSITIZATION	Not available
SKIN SENSITIZATION	May cause skin disorders with prolonged or repeated contact.

GERM CELL MUTAGENICITY

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY

Risk of cancer cannot be excluded with prolonged exposure. IARC: occupational exposures to straight-run bitumen and their emissions during road paving are "possibly carcinogenic to humans" (Group 2B)

IARC MONOGRAPHS. OVERALL EVALUATION OF CARCINOGENICITY

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)

Not listed

REPRODUCTIVE TOXICITY Not available

SPECIFIC TARGET ORGAN TOXICITY

- single exposure	Not available
- repeated exposure	Not available

ASPIRATION HAZARD

Not available

CHRONIC EFFECTS

Prolonged inhalation may be harmful.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY Not expected to be harmful to aquatic organisms.

PERSISTENCE AND DEGRADABILITY No data is available on the degradability of this product.

BIOACCUMULATIVE POTENTIAL No data available.

MOBILITY IN SOIL No data available.

OTHER ADVERSE EFFECTS No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL INFORMATION

DISPOSAL INSTRUCTIONS Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. No components are identified as hazardous wastes. Disposal recommendations are based on uncontaminated material.

LOCAL DISPOSAL REGULATIONS Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not applicable.

WASTE FROM RESIDUES /UNUSED PRODUCTS Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Avoid discharge into water courses or onto the ground.

CONTAMINATED PACKAGING Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORTATION INFORMATION

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not Available

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS All components are on the U.S. EPA TSCA Inventory List.

TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, SUBPT. D) Not Regulated

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)

ASPHALT (CAS 8052-42-4) Listed

US EPCRA SECTION 304 EXTREMELY HAZ. SUBS. & CERCLA HAZ. SUBS.:

SECTION 304 EHS REPORTABLE QUANTITY

Not Regulated

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050) Not Listed

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard categories

- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE Not Listed

SARA 311/312 HAZARDOUS CHEMICAL No

SARA 313 (TRI REPORTING) Not Regulated

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants(HAPs) List Not Regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not Regulated

SAFE DRINKING WATER ACT (SDWA) Not Regulated

DRUG ENFORCEMENT ADMINISTRATION (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))
Not Regulated

DEA ESSENTIAL CHEMICAL CODE NUMBER Not Regulated

DRUG ENFORCEMENT ADMINISTRATION (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not Regulated

DEA EXEMPT CHEMICAL MIXTURES CODE NUMBER Not Regulated

US STATE REGULATIONS

WARNING: This product contains a chemical known to the State of California to cause cancer.

US. Massachusetts RTK - Substance List

ASPHALT (CAS 8052-42-4)

US. New Jersey Worker and Community Right-to-Know Act

Not Regulated

US. Pennsylvania RTK - Hazardous Substances

ASPHALT (CAS 8052-42-4)

US. Rhode Island RTK

Not Regulated

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990

INTERNATIONAL INVENTORIES

Country(s) or region Inventory name On inventory (yes/no)*

Australia Australian Inventory of Chemical Substances (AICS) Yes

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

China Inventory of Existing Chemical Substances in China (IECSC) Yes

Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Yes

Europe European List of Notified Chemical Substances (ELINCS) No
Japan Inventory of Existing and New Chemical Substances (ENCS) Yes
Korea Existing Chemicals List (ECL) Yes
New Zealand New Zealand Inventory Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS) Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION



NFPA LABEL

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