

Anionic Emulsion by GuardTop® Safety Data Sheet



Section 1: Identification of the substance/mixture and of the company/undertaking

Generic Category: Anionic Emulsified Asphalt

Product Name(s): RS-1, RS-1H, SS-1, SS-1H, SS-1H DIL, SS-1HH

Formula: Trade Secret

Company Address: GuardTop LLC
32834 Pacific Coast Hwy #210
Dana Point, Ca. 92629
PHONE: (949) 218-4319


EMERGENCY PHONE: Chemtrec (800) 424-9300

Product Use: Road Paving and Resurfacing

Section 2: Hazards identification

OSHA/MSHA Hazard Communication: This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program

Classifications: Skin Irritation – Category 2
Eye Irritation – Category 2
Carcinogenicity – Category 2



Signal Word: WARNING

Hazards: May cause irritation and burns to skin and eyes when brought in contact.

Inhalation: This product is not likely to present an inhalation hazard during normal use. At elevated temperatures and in confined spaces, vapors may cause irritation of the respiratory tract.

Skin Absorption: No significant symptoms indicative of skin absorption expected.

Skin Irritation: Will cause burns when product is hot. May cause dermatitis and acne like lesion with prolonged exposure.

Ingestion: Ingestion of this material can cause severe irritation or burns of the mouth, throat, esophagus, and stomach. May cause nausea and vomiting.

Eye Contact: Will burn and irritate.

Primary Route of Exposure: Skin and eye contact are the primary routes of exposure to this product.

Carcinogen:



Anionic Emulsion by GuardTop® Safety Data Sheet

Section 3: Composition/information on ingredients

<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Asphalt Cement	8052-42-4	< 70%
Polymer Additives	Trade Secret	< 8%
Naptha	8030-30-6	< 5%
No. 1 Fuel (Kerosene)	8008-20-6	< 10%
No. 2 Fuel (Diesel)	68476-34-6	< 20%
Anionic Emulsifier	Trade Secret	< 5%
Sodium Hydroxide	1310-73-2	< 2%
Hydrogen Sulfide	7783-06-4	< 0.1%
Polycyclic Aromatic Hydrocarbons	130498-29-2	< 0.1%
Water	7732-18-5	Balance

Section 4: First aid measures

Inhalation:	Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.
Eye Contact:	Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.
Skin Contact:	If hot product should contact skin, thermal burns will result. Immediately cool the affected area with cold water. It is not advisable to immediately remove product. Natural separation will occur in 48 -72 hours. Removal should be attempted only under the direction of a physician.
Ingestion:	If ingested, do not induce vomiting, call a physician immediately



Section 5: Fire Fighting Measures

Flash Point: Not Available
Autoignition Temperature NFPA: Not Available
Extinguishing Media: Dry Chemical, CO₂, Class "B" extinguisher or foam.

Special Fire Fighting Procedures: Avoid breathing vapors, wear self-contained breathing apparatus. Use of foam or water may cause frothing. Avoid using straight water streams.

Unusual Fire Explosion Hazards: Do not heat material above 100°C (212°F) to avoid generating excessive steam pressure.

Fire & Explosion Hazards: This product is not defined as flammable or combustible.

Hazard Rating:	HMIS	NFPA	Hazard Rating Scale	
Health:	2	2	0 – Minimal	2 - Moderate
Fire:	1	1	1 – Slight	3 - Serious
Reactivity	0	0		4 - Severe
Special Fire Fighting Procedures:	0	0		

Section 6: Accidental release measures

Notification and Personal Precautions: In the event of a spill or accidental release, immediately contact emergency personnel and notify relevant authorities in accordance with all applicable regulations. If the release of this material to the environment could reach any waterway including intermittent dry creeks, contact the National Response Center at (800)424-8802.

Land Spill: Stop release by making earthen dike, prevent flow from entering sewers and water ways. Allow to cool. Remove large spill. Soak up product with sand.

Waste Disposal: Handle in accordance with federal, state and local regulations

Section 7: Handling and storage

Precautions for safe handling: Wear appropriate personal protective equipment (see Section 8). Avoid prolonged exposure. Use only in well-ventilated areas. Trace amounts of hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Open hatches with caution. Wash hands and contaminated areas with water and soap before leaving the work site.

Conditions for safe storage: Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Do not allow material to freeze.



Anionic Emulsion by GuardTop® Safety Data Sheet

Section 8: Exposure controls/personal protection

Chemical Name	PeI(OSHA)	STEL(OSHA)	STEL (NIOSH)	TWA (ACGIH)
Asphalt Cement Fumes				0.5 mg/m ₃
Naptha	100 ppm		100 ppm	
No. 1 Fuel (Kerosene)			100 mg/m ₃	
Sodium Hydroxide	2 mg/m ₃		2 mg/m ₃	2 mg/m ₃
Hydrogen Sulfide		20 ppm	5 ppm	1 ppm

Respiratory Protection: Avoid breathing vapors in confined spaces. NOISH approved respirators may be required if TLV's are exceeded.

Eye Protection: Use safety glasses, goggles or face shields.

Skin Protection: PPE selection based on the specific use conditions. When handling product at elevated temperatures, use long-cuffed heat resistant gloves. When product is at ambient temperatures, use gloves constructed of chemical resistant materials such as heavy nitrile rubber. Use coveralls, impervious apron and long-sleeved shirts and wear impervious footwear.

Engineering Controls: Local exhaust ventilation may be required to meet exposure standards in confined areas.

Handling Precautions: Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

Section 9: Physical and chemical properties

Boiling Point:	> 100°C (212°F)	Vapor Density (Air= 1):	>1
Specific Gravity @ 60°F:	0.95 to 1.03	Evaporation Rate (nBuAc =1):	<1
Viscosity:	< 2000 mPas at 60°C (140°F)	Solubility in Water:	Up to 100%
Melting Point:	Not Established	Vapor Pressure (mm Hg):	<1

Appearance and Odor: Viscous brown to black liquid; mild hydrocarbon odor

Section 10: Stability and reactivity

Stable: YES
Conditions to Avoid: Open flame, sparks and extreme heat. Do not heat above 200 °F (93.3°C). Avoid freezing.

Incompatible Materials: Avoid strong oxidizing agents.

Hazardous Decomposition Products: Combustion may form CO₂, CO and sulfur dioxide.

Hazardous Polymerization: Will not occur.



11: Toxicological information

Information on likely routes of exposure

Ingestion: Expected to be a low ingestion hazard.
Inhalation: Prolonged inhalation may be harmful.
Skin contact: Thermal burn hazard.
Eye Contact: Harmful in contact with eyes.

Information on toxicological effects:

Ingredient	Result	Species	Dose	Exposure
Asphalt	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Fuel, No.1	LC50 Inhalation Vapor	Rat	>5.28 mg/l	5 hrs
	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>2000 mg/kg	-

Ingredient	Result	Species	Score	Dose	Observation
Sodium Hydroxide	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 mg	-
	Skin - Mild irritant	Human	-	24 hrs 2 percent	-
	Skin - Severe irritant	Rabbit	-	24 hrs 500 mg	-

Carcinogenicity

NTP: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer. No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.

IARC: Asphalt (Bitumen) (CAS-No.: 8052-42-4) Group 2B possibly carcinogenic to humans No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), Group 2B possibly carcinogenic to humans.

OSHA: Asphalt (CAS-No.: 8052-42-4), may contain trace amounts of benzene a chemical known to cause cancer. No. 1 Fuel (Kerosene) (CAS-No.: 8008-20-6), may contain chemicals known to cause cancer.

Teratogenicity

Specific target organ toxicity (single exposure): Not Available



Anionic Emulsion by GuardTop® Safety Data Sheet

Irritation/corrosion:

Specific target organ toxicity (repeated exposure):

Ingredient	Category	Route of exposure	Target Organs
Fuel, No.1	Category 2	Skin	Bone marrow, liver and thymus

Aspiration hazard: Not Available

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Short term exposure

Potential immediate effects: Not Available
 Potential delayed effects: Not Available

Long term exposure

Potential immediate effects: Not Available
 Potential delayed effects: Not Available

Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates: Not Available



Section 12: Ecological information

Environmental Hazards

This material is not expected to have a significant adverse effect on the environment

Persistence and degradability:	No data is available on the degradability of this product.
Bio accumulative 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 considerations

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport information

DOT/TDG

Proper shipping name:	Not Regulated
UN-No.:	-
Class:	-
Packing group:	-
Hazard inducer:	-



Section 15: Regulatory information

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):

This product is not listed as a CERCLA hazardous substance.

SARA Title III (Superfund Amendments and Reauthorization Act):

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 and is considered to be an acute health hazard (irritation).

EPRCA SARA Section 313:

This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA:

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

California Prop. 65:

This product and/or its components are not listed in California's Proposition 65.

Section 16: Other information

IMPORTANT: *The information presented herein, while not guaranteed, is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESS OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and GuardTop LLC. assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer.*