

ERGON Asphalt & Emulsions, Inc.

BGA

MSDS No. ETC007

Date of Preparation: **April 8, 2008**

Revision No.5

Section 1 – Chemical Product and Company Information

Product/Chemical Name:	BGA
Chemical Formula:	Mixture
CAS Number:	Mixture
Other Designations:	Proprietary Mixture (Contains Oil)
General Use:	
Manufacturer:	ERGON Asphalt & Emulsions, Inc. – Technical Coatings Division; P O Box 1639; Jackson MS 39215-1639; Phone 601-933-3000; Hours of Operation 8:00 am – 5:00 pm; ERGON 24 Hour Emergency Phone Number 1-800-222-7122; CHEMTREC 1-800-424-9300.

Section 2 – Composition / Information on Ingredients

Ingredient Name	CAS Number	% Vol
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	64742-52-5	45-50%
Sulphur	7704-34-9	49-51%
Rheological Additive	108-32-7	<2%
Other Components	Mixture	<1%

INGREDIENT	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDHL
	TWA	STEL	TWA	STEL	TWA	STEL	
Severely Hydrotreated Heavy Naphthenic Petroleum Oil	5 mg/m ³ (Oil Mist)	None estab.	5 mg/m ³ (Oil Mist)	10 mg/m ³ (Oil Mist) (ceiling)	5 mg/m ³ (Oil Mist)	10 mg/m ³ (Oil Mist) (ceiling)	2,500 mg/m ³ (Oil Mist)
Elemental Sulphur	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Rheological Additive	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Other Components	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.

Section 3 – Hazards Information

EMERGENCY OVERVIEW

<p align="center">HMIS H-2 F-1 R-0 PPE* * Sec.8</p>

POTENTIAL HEALTH EFFECTS

Primary Entry Routes: Inhalation and absorption.

Target Organs: Mucous membranes, skin, and digestive tract.

Acute Effects

Inhalation: Product is irritation to mucous membranes and respiratory tract. Inhalation of product may produce symptoms such as headache, dizziness, nausea, vomiting, and loss of coordination.

Eye: Highly irritating.

Skin: Moderately irritating. May lead to photosensitization and drying of the skin.

Ingestion: Irritating to mucous membranes and gastrointestinal tract.

Carcinogenicity: IARC, NTP, and OSHA do not list this product as carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Dermatitis.

Chronic Effects: Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis.

Section 4 – First Aid Measures

Inhalation: This material is not expected to be an immediate inhalation hazard, no first aid procedures required.

Eye Contact: Flush thoroughly with water for at least 15 minutes. If irritation persists seek medical attention.

Skin Contact: After contact with product, wash thoroughly with soap and water. Do not use harsh solvents.

Ingestion: Do not induce vomiting and seek medical help.

After first aid, get appropriate in-plant paramedic or community medical support.

Special Precautions/Procedures: The product contains naphthenic oil. As with other petroleum products, the aromatic compounds are present in varying concentrations and structures. Some of these compounds may be those which have been shown to result in tumor formation in animals under laboratory conditions. The concentrations of aromatic compounds in this product require that the precautions outlined in this MSDS be followed to minimize personnel exposure.

Provide adequate ventilation to keep vapors below allowable exposure levels. Use PPE appropriate for the task.

Section 5 – Fire Fighting Measures

Flash Point: 365°F

Flash Point Method: PMCC

Auto Ignition Temperature: >450°F

LEL: NA

UEL: NA

Flammability Classification: Class IIIB

Extinguishing Media: Halon, Dry chemical, foam, water mist, fog, and carbon dioxide.

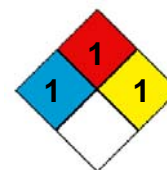
Unusual Fire or Explosion Hazards: This product may ignite when sufficient heat is applied. Check for combustible vapors prior to and during welding or torch cutting on vessels or tanks.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and sulfur dioxide.

Fire-Fighting Instructions: Use of foam or water may cause frothing. Do not release runoff from fire control methods to sewers or waterways. Use a water supply to cool fire-exposed containers.

Fire-Fighting Equipment: Use self-contained breathing apparatus in enclosed areas where heavy smoke may occur.

NFPA



Section 6 – Accidental Release Matters

Spill/Leak Procedures: Stop spill at source. Confine spill by diking or impoundment. Remove sources of heat or ignition. Clean-up spill but do not flush to sewer or surface water. Ventilate area and avoid breathing vapors or mists.

Small Spills: Stop spill at source if possible. Isolate and confine by diking, or similar method. Remove discharged material.

Large Spills:

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Mix with inert absorbent material such as soil, sand, or oil dry, to stabilize.

Regulatory Requirements: Notify local health and pollution control agencies as appropriate. Follow applicable OSHA regulations (29 CFR 1900.120). This material is not a hazardous waste as defined in RCRA. For disposal follow all federal, state, and local regulations regarding solid waste.

Section 7 – Handling and Storage

Handling Precautions: This product is stable at ambient temperature. Product degrades if heated above 140°F.

Storage Requirements: Ground and bond all transfer and storage equipment. Ventilation is required only in enclosed areas where the mixture is subjected to severe conditions of heat or agitation.

Regulatory Requirements: None known.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls: Not Applicable.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH -approved respirator. Select respirator based on its suitability, to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. **Use self-contained, positive-pressure,**

breathing apparatus (SCBA) when this product is used in a confined or enclosed space and exposure limits are exceeded or hydrogen sulfide concentration is unknown or exceeds 20 ppm. Organic vapor respirators may be used with good ventilation when organic vapors are less than 1000 ppm or ten times permissible exposure limit, whichever is less. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA until it is determined that a hazardous atmosphere and/or oxygen deficient atmosphere is NOT PRESENT. *Warning! air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes: procedures for selecting respirators; medical evaluation; fit testing; use in routine and emergency situations; cleaning, disinfecting, storing, inspecting, repairing, discarding and maintaining respirators; adequate air quality, quantity and flow; training in respiratory hazards; training in use of respirators; and an evaluation of the effectiveness of the respiratory program.

Protective Clothing/Equipment: Wear protective gloves, boots, aprons, and gauntlets as need to prevent prolonged or repeated skin contact. Goggles and face shields should be used in areas where splashing may occur. Wear protective eyeglasses or safety goggles per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, or smoking.

Section 9 – Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Gray paste with mild odor

Odor Threshold: No data

Vapor Pressure: <1 mm Hg at 70°F

Vapor Density (Air = 1): >1

Formula Weight: Est. 250 lb/lb-mole

Density: 10.59 lb/gal

Specific Gravity (H₂O = 1, at 4°C): 1.27

pH: No data.

Water Solubility: Negligible.

Other Solubilities: No data.

Boiling Point: >212°F

Freezing/Melting Point: No data.

Viscosity: No data.

Refractive Index: No data.

Surface Tension: No data.

% Volatile: No data.

Evaporation Rate: No data.

Section 10 – Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents.

Conditions to Avoid: Do not store near open flame or sources of ignition.

Hazardous Decomposition Products: Primary decomposition products are carbon monoxide, carbon dioxide, and water. Combustion products may include sulfur oxides and hydrogen sulfide.

Section 11 – Toxicological Information

Eye Effects: Vapors may cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

Skin Effects: Product may cause mild skin irritation.

Acute Inhalation Effects: Human, inhalation, TC_{LO}: No data.

Acute Oral Effects: Rat, oral, LD₅₀: No data

Carcinogenicity: Not a known human carcinogen.

Mutagenicity: No data.

Teratogenicity: No data.

Chronic Effects: Prolonged and repeated skin contact may cause dermatitis, photosensitization, and melanosis.

Section 12 – Ecological Information

Ecotoxicity: No data.

Environmental Fate:

Environmental Transport: No data.

Environmental Degradation: No data.

Soil Absorption/Mobility: No data.

Section 13 – Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: Waste material should not be a hazardous waste under RCRA guidelines. Follow Federal, state, and local regulations for disposal of solid waste.

Container Cleaning and Disposal: Recommend using a non-hazardous solvent to remove the product. Follow Federal, state, and local regulations for disposal of the waste material, regardless of its waste classification.

Section 14 – Transport Information

Shipping Name: Naphthenic Oil Mixture
Not Regulated

Shipping Symbols: NA

Hazard Class: NA

ID No.: NA

Packing Group: NA

Label: NA

Special Provisions (172.102): NA

Packaging Authorizations:

a) Exceptions: NA

b) Non-bulk Packaging: NA

c) Bulk Packaging: NA

Quantity Limitations:

a) Passenger, Aircraft, or

Railcar: NA

b) Cargo Aircraft Only:

NA

Vessel Stowage

Requirements:

a) Vessel Stowage: NA

b) Other: NA

Section 15 – Regulatory Information

EPA Regulations:

RCRA

RCRA Hazardous Waste Number: Not listed.

RCRA Hazardous Waste Classification (40 CFR 261): This material should not be hazardous due to characteristics.

CERCLA

CERCLA: Not listed.

CERCLA Reportable Quantity (RQ): This material is not a listed hazardous substance and does not have a reportable quantity. However, if spilled into waters of the U.S., it may be reportable under the Clean Water Act.

SARA

SARA 311/312 Codes: Fire–Yes, Pressure–No, Reactivity–Yes, Immediate (acute)–Yes, Delayed (chronic)–Yes.

SARA Toxic Chemical: Not listed.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

OSHA Regulations

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): See Table in Section 2.

OSHA Specifically Regulated Substance: No

State Regulations: FL, MA, NJ, as petroleum fumes; and PA as petroleum product.

Section 16 – Other Information

Revision Notes:

Additional Hazard Rating Systems: NAS Hazard Rating for Bulk Water Transportation of this product:
No Data.

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