

Anionic Slow Setting Emulsion

SECTION 1. IDENTIFICATION

Product Identifier	Anionic Slow Setting Emulsion
Other Means of Identification	SS-1 (H) (HH) (P), ADL Special
Other Identification	Clean Bond Coat, MACSIZE
Recommended Use	Tack Coating, Surface Treatment.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	McAsphalt Industries Ltd, 8800 Sheppard Ave East, Toronto, Ontario, M1B 5R4
Emergency Phone No.	CANUTEC, (613) 996 - 6666, 24 hours McAsphalt Industries Ltd., 1 - (800) - 268 - 4238, 8AM-5PM Monday to Friday
SDS No.	0151

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Classification

Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 3; Eye irritation - Category 2B; Carcinogenicity - Category 2

Label Elements



Warning

Harmful if swallowed, in contact with skin or if inhaled.
IF exposed or concerned: Get medical advice/attention.

Other Hazards

Dark Black-Brown. characteristic asphaltic odour or "rotten egg" odour if H₂S present, but odour is an unreliable warning, since it may deaden the sense of smell. Prolonged or repeated skin contact can cause drying of the skin which may produce irritation or dermatitis.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Asphalt (Bitumen)	8052-42-4	55-75		
Water	7732-18-5	25-45		
Styrene-butadiene copolymers	9003-55-8	0-3		
FUEL OIL NO. 2	68476-30-2	0-1		
Emulsifier	61790-12-3,	1-4		

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	8050-09-7			
BIS(2-ETHYLHEXYL) SODIUM SULFOSUCCINATE	577-11-7	0.8-4		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Seek Medical Help if not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention immediately.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. For hot asphalt splash, cool affected body part with water immersion or shower. Do not attempt removal of asphalt but split longitudinally if circumferential to avoid tourniquet effect. No attempt should be made to remove firmly adhering bitumen from the skin. Once the bitumen has cooled, it will do no further harm and in fact provide a sterile covering over a burnt area. As healing takes place, the bitumen plaque, the bitumen plaque will detach itself, usually after a few days. For skin soiling without underlying burn, cleanse with mineral oil followed by soap and water. Use olive oil in vicinity of eyes.

Eye Contact

Get medical attention immediately. Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most Important Symptoms and Effects, Acute and Delayed

Inhalation of this product may cause respiratory tract irritation and Central Nervous System (CNS) Depression, symptoms of which may include weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. At higher concentrations (above 10 ppm), hydrogen sulphide is extremely toxic by inhalation, may cause respiratory-tract irritation and respiratory failure, coma and death. Pulmonary edema can occur up to 24 hours after hydrogen sulphide exposure. While hydrogen sulphide emits a strong odour of rotten eggs, detection by smell is not sufficient as a warning property for exposure to this substance, as it may deaden the sense of smell quickly.

Repeated or prolonged exposure can irritate the skin.

If in eyes: may cause moderate to severe irritation. Symptoms include slight redness and pain.

If swallowed: symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Immediate Medical Attention and Special Treatment

Special Instructions

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Medical Conditions Aggravated by Exposure

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated skin exposure can produce local skin destruction or dermatitis.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Large fire: Carbon dioxide, dry chemical powder or appropriate foam. Fire fighting foam suitable for the situation.

Unsuitable Extinguishing Media

Do not spray water onto tank, vessel containing liquid asphalt as water reacts violently with product at elevated temperatures; risk of steam explosion!

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Specific Hazards Arising from the Product

Not flammable

Heating increases the release of toxic vapour. non combustible materials but under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece.

A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Keep out unnecessary and unprotected personnel. Wear rubber boots in addition to the recommended protective clothing do not touch or walk through spilt material. No action shall be taken involving any personal risk or without suitable training. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Protect bodies of water by diking, absorbents or absorbent boom, if possible.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Ventilate the area to prevent the gas from accumulating, especially in confined spaces. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Contact emergency services and manufacturer/supplier for advice.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating vapours or mists. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). Wear personal protective equipment to avoid direct contact with this chemical. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest.

Conditions for Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials(see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Asphalt (Bitumen)	0.5 mg/m ³ (I) A4 BEI		Not established			
Styrene-butadiene copolymers	3 mg/m ³ (R)					
FUEL OIL NO. 2	100 mg/m ³					

Appropriate Engineering Controls

If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Use only with adequate ventilation. Exhaust ventilation/engineering controls need to keep vapour and gas concentrations below recommended limits and below any lower explosive limits.

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Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin Protection

Prevent skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots. Wear a chemical splash suit and respiratory protection.

Suitable materials are: nitrile rubber.

Respiratory Protection

Do not breathe in this product. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter cartridge or canister with a dust, fume or mist filter (R, or P series) may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark black - brown.
Odour	Characteristic asphaltic odour or "rotten egg" odour if H ₂ S present, but odour is an unreliable warning, since it may deaden the sense of smell. (Asphalt (Bitumen))
Odour Threshold	Not applicable
pH	Not available
Melting Point/Freezing Point	Not available (melting); 0 °C (freezing)
Initial Boiling Point/Range	100 °C (212 °F)
Flash Point	> 100 °C
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	1.01
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log K_{ow})	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

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Possibility of Hazardous Reactions

Not applicable.

Conditions to Avoid

High temperatures. Sunlight.

Incompatible Materials

Acides. Bases. Oxidizers.

Hazardous Decomposition Products

May release CO_x, NO_x, SO_x, PO_x, H₂S, hydrocarbons, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; inhalation.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Asphalt (Bitumen)		> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
BIS(2-ETHYLHEXYL) SODIUM SULFOSUCCINATE		10000 mg/kg (rabbit)	
FUEL OIL NO. 2		~ 12000 mg/kg (rat)	

Skin Corrosion/Irritation

Irritating to skin. Signs/symptoms may include localized redness, swelling, and itching. Hot liquid product may cause serious thermal burns on direct contact. Asphalt fumes can increase susceptibility to sunburn.

SKIN IRRITANT. Symptoms include pain, redness, and swelling. The vapour also irritates the skin. Repeated or prolonged exposure can irritate the skin. Repeated or prolonged exposure can irritate or burn the skin.

Serious Eye Damage/Irritation

Irritating to eyes. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. Hot liquid product may cause serious thermal burns on direct contact. Hydrogen sulphide may cause eye irritation at 1 - 20 ppm and acute conjunctivitis at higher concentrations. Above 50 ppm H₂S, eye irritation may include symptoms of redness, sever swelling, tearing, sensitivity to light and the appearance of 'Halos' around lights.

EYE IRRITANT. Hot liquid product may cause thermal burns. The gas irritates or burns the eyes. Permanent damage including blindness can result. Exposure to product vapours or liquid may cause irritation. Symptoms may include intolerance to light, redness, swelling, and tearing. Direct contact with hot material will cause burns.

Irritant to eye

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Nose and throat irritation.

Vapours and gases from heated asphalt are obnoxious and toxic containing some hydrogen sulfide. Inhalation of hot asphalt fumes can produce eye and respiratory tract irritation, headache, nausea and nervousness due to the formation of hydrogen sulfide gas.

Ingestion

Not a relevant route of exposure (gas). Can burn the lips, tongue, throat and stomach. In severe cases, symptoms may include fatigue, shortness of breath, bluish lips and skin, headache, nausea, vomiting, irregular heartbeat, dizziness and confusion.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not available.

Respiratory and/or Skin Sensitization

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Skin irritation, the symptoms may include redness and itching and swelling it may irritate the respiratory system.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Asphalt (Bitumen)	Group 2B	A4		
BIS(2-ETHYLHEXYL) SODIUM SULFOSUCCINATE	Not Listed	Not Listed		
FUEL OIL NO. 2	Group 3	A3	Not Listed	

Group 2B - Possibly carcinogenic to humans: occupational exposures to straight-run asphalt cement and its emissions during road paving a Group 2B ("possibly carcinogenic to humans") classification. This Group 2B classification puts road paving in the same category as numerous exposures, including cell phones and coffee.

An IARC working group has concluded that occupational exposures to straight-run bitumens and their emissions during road paving are 'possibly carcinogenic to humans' (Group 2B).

Reproductive Toxicity

Development of Offspring

Not available.

Sexual Function and Fertility

Not available.

No known significant effects or critical hazards.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Germ Cell Mutagenicity

Not available.

No known significant effects or critical hazards.

Interactive Effects

Not available.

Not Available

SECTION 12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable under Federal and Provincial regulations.

Ecotoxicity

Marine Pollutant.

Persistence and Degradability

No ingredient of this product or its degradation products is known to be highly persistent.

Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

Mobility in Soil

Studies are not available.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Recycle and reuse product, if possible. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. Dispose of or recycle empty containers through an approved waste management facility.

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SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL. The components of this product are in compliance with the chemical notification requirements of the NSN Regulation under CEPA, 1999.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

The components of this product are in compliance with the chemical notification requirements of TSCA.

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 1	Flammability - 1	Instability - 0
SDS Prepared By	EPC & Risk Management Department		
Phone No.	1-800-268-4238		
Date of Preparation	January 23, 2018		
Date of Last Revision	June 14, 2018		
Revision Indicators	June 14 2018 Emulsifier added to chemical composition		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).		
Disclaimer	To the best of our knowledge, the information herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.		

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