



# Safety Data Sheet

## Anionic Asphalt Emulsion

### SECTION 1. IDENTIFICATION

**Product Identifier** Anionic Asphalt Emulsion  
**Other Means of Identification** HF-150S, HF-150SP, HFMS-2, HFMS-2P, HFRS-2, SS-1, RS-1, SS-1H, NTSS-1H  
**Recommended Use** Surface Treatment for Road Preservation  
**Restrictions on Use**  
**Initial Supplier Identifier** Duncor Enterprises Inc.  
101 Big Bay Point Rd.  
Barrie, Ontario  
L4N 8M5  
Canada  
(705) 730-1999  
**Emergency Telephone Number** CANUTEC (613) 996-6666

### SECTION 2. HAZARD IDENTIFICATION

**Classification** This chemical is considered hazardous by the 2012 OHS hazard communication standard.

Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage	Category 2A
Skin Sensitization	Category 1A
Carcinogenicity	Category 2
Specific Target Organ Toxicity	Category 2
Acute Aquatic Toxicity	Category 2
Chronic Aquatic Toxicity	Category 2

#### Label Elements



**Other Hazards** Hot liquid which may cause thermal burns  
May release hydrogen sulfide gas



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %w/w	Common name / Synonyms	Other identifiers
Asphalt Cement	8052-42-4	55-70	Asphalt, Bitumen	
Fuel Oil #2	68476-30-2	0-5	Diesel, Furnace Oil	
Co-polymer	9003-55-88	0-4	Latex	
Anionic Emulsifier	Mixture	0.5-2	Surfactant	
Sodium Hydroxide	1310-73-2	<1	Caustic Soda	

#### Notes

### SECTION 4. FIRST-AID MEASURES

<b>Inhalation</b>	Fumes or vapours released may result in irritation to the nose and throat as well as symptoms such as headache, dizziness, nausea, loss of coordination and drowsiness.
<b>Skin Contact</b>	Direct exposure can cause skin irritation or severe burns. Chronic exposure may result in dry skin, dermatitis or defatting of skin.
<b>Eye Contact</b>	Contact to the eyes can result in irritation, redness, itching and severe burns. Eye exposures require immediate first aid treatment.
<b>Ingestion</b>	Avoid ingesting asphalt emulsion. Ingestion may result in thermal burns, nausea, vomiting, diarrhea and restlessness.
<b>Adverse Effects</b>	Frequent and/or prolonged contact with cold material may cause irritation. Additional effects may include skin sensitization. Exposure to hot melted material can cause thermal burns.

### SECTION 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media Suitable</b>	For small fires, Class B fire extinguishing media such as CO <sub>2</sub> , dry chemical, foam (AFFF/ATC) or water fog can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment. Do not use straight streams. Water contact can cause violent eruption of hot asphalt.
<b>Extinguishing Media Unsuitable</b>	
<b>Specific Hazards Arising from the Product</b>	Flammable vapours can accumulate in closed systems or areas with insufficient ventilation.
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep run-off water out of sewers and water sources.

### SECTION 6. ACCIDENTAL RELEASE MEASURES



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**Personal Precautions, Protective Equipment, and Emergency Procedures**      **Keep public away. Isolate and evacuate the area. Shut off source if safe to do so. Use personal protection measures as recommended in Section 8. Advise authorities if product entered a water course of sewer. Notify local health and pollution control agencies, if appropriate. Contain liquid with sand or soil.**

**Methods for Containment and Cleaning Up**      **Use suitable absorbent materials such as vermiculite, sand or clay to clean up residual liquids. Recover and return free product to proper containers.**

## **SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling**      **Handle asphalt emulsion with care. Store material in closed containers with appropriate labels and in a cool well-ventilated area. Take caution to prevent exposure to heat, open flames, strong oxidizers and other sources of ignition. Refrain from performing heat producing tasks on/near containers such as cutting, drilling, grinding or welding as they may contain flammable residues.**

**Avoid contact with asphalt emulsion and use additional precautions when handling hot material. Minimize employee exposure, ensure adequate ventilation and ensure proper Person Protective Equipment is available at all times.**

**Conditions for Safe Storage**      **Store in containers or tanks isolated from ignition sources or open flames. Avoid freezing of asphalt emulsions. Do not store above 90°C as temperatures above this value may cause boiling of the aqueous phase, resulting in overflowing of the container.**

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL	TWA	STEL
Asphalt Cement	0.5 mg/m3 TWA	-	-	-
Fuel Oil #2				
Co-polymer				
Anionic Emulsifier				
Sodium Hydroxide				

**Appropriate Engineering Controls**      **Local or general exhaust required in an enclosed area or when there is inadequate ventilation.**

### **Individual Protection Measures**

**Eye/Face Protection**      **To prevent contact of asphalt emulsion with eyes, wear CSA/ANSI approved safety goggles or face shields.**

**Skin Protection**      **When in contact with hot product, wear insulated chemical resistant gloves. Do not use barrier creams. Additional protection may be required to prevent exposure including aprons, arm covers, face shields and boots. Remove and**



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clean asphalt emulsion soiled clothing. Thoroughly wash hands and/or exposed skin.

**Respiratory Protection**

Wear a NIOSH approved respirator that is properly fitted and in good condition when exposed to concentrated vapours.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Black/Brown Liquid
Odour	Petroleum Odour
Odour Threshold	N/A
pH	N/A
Melting Point and Freezing Point	0°C
Initial Boiling Point and Boiling Range	100°C
Flash Point	N/A
Evaporation Rate	N/A
Flammability (solid, gas)	N/A
Upper and Lower Flammability or Explosive Limit	N/A
Vapour Pressure	Negligible @25°C
Vapour Density (air = 1)	N/A
Relative Density (water = 1)	1.1-1.2
Solubility in Water	Negligible
Solubility in Other Liquids	N/A
Partition Coefficient, n-Octanol / Water (Log Kow)	N/A
Auto-ignition Temperature	N/A
Decomposition Temperature	N/A



Viscosity 20-300 SFS (Saybolt Furol Seconds)

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity This product is non-reactive under normal conditions.  
 Chemical Stability Stable under recommended storage conditions.  
 Possibility of Hazardous Reactions None under normal processing.  
 Conditions to Avoid Sources of heat or ignition.  
 Incompatible Materials Strong oxidizing agents.  
 Hazardous Decomposition Products None known under normal conditions of use.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure**

Inhalation  Skin contact  Eye contact  Ingestion

**Acute Toxicity**

LC50 N/A  
 LD50 (oral) N/A  
 LD50 (dermal) N/A  
 Notes

Skin Corrosion / Irritation Not Classified  
 Serious Eye Damage / Irritation Not Classified  
 STOT (Specific Target Organ Toxicity) - Single Exposure Not Classified  
 Aspiration Hazard Not Classified  
 STOT (Specific Target Organ Toxicity) - Repeated Exposure Not Classified  
 Respiratory and/or Skin Sensitization May cause sensitization by skin contact. Not expected to be a respiratory sensitizer.  
 Carcinogenicity Suspected of causing cancer.

Chemical Name	IARC	ACGIH®	OSHA



**Notes**

**Reproductive Toxicity**  
 Development of Offspring **Not Classified**  
 Sexual Function and Fertility **None Known**  
 Effects on or via Lactation  
 Germ Cell **Not Classified**  
 Mutagenicity  
 Interactive Effects **Not available**

**SECTION 12. ECOLOGICAL INFORMATION** *(section heading must appear; all content is optional)*

**Ecotoxicity** This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.  
**Persistence and Degradability** Not expected to be readily biodegradable.  
**Bioaccumulative Potential** Not expected to bioaccumulate in aquatic organisms.  
**Mobility in Soil** Not likely to move rapidly with surface or groundwater flows because of its lower water solubility.  
**Other Adverse Effects** N/A

**SECTION 13. DISPOSAL CONSIDERATIONS** *(section heading must appear; all content is optional)*

**Disposal Methods**

**SECTION 14. TRANSPORT INFORMATION** *(section heading must appear; all content is optional)*

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group

**Special Precautions** TDG (Canada) Not Regulated.  
**Environmental Hazards**  
**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code** Not regulated.

**SECTION 15. REGULATORY INFORMATION** *(section heading must appear; all content is optional)*



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Safety, Health and  
Environmental  
Regulations N/A

## SECTION 16. OTHER INFORMATION

Date of Latest  
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