## **SAFETY DATA SHEET**



# 1. Identification

**Product identifier HFMS-1 Other means of identification** None.

**Recommended use**Not available. **Recommended restrictions**None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Ergon Asphalt & Emulsions, Inc.

Address: 2829 Lakeland Drive

Jackson, MS 39232

**Website:** www.ergonasphalt.com

**Telephone:** 1-800-222-7122 (Customer Service)

**E-mail:** sds@ergon.com

24 hour Emergency

(CHEMTREC):

North America 1-800-424-9300; International 1-703-527-3887

# 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Carcinogenicity Category 2

Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Warning

**Hazard statement** Suspected of causing cancer. May cause damage to organs through prolonged or repeated

exposure.

**Precautionary statement** 

**Prevention** Do not breathe dust/fume/gas/mist/spray. Obtain special instructions before use. Do not handle

until all safety precautions have been read and understood. Wear protective gloves/protective

clothing/eye protection/face protection.

**Response** Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical

advice/attention.

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Molten asphalt presents a thermal hazard.

**Supplemental information** Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN

SULFIDE (H2S) can be harmful if inhaled.

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name | Common name and synonyms | CAS number | %       |
|---------------|--------------------------|------------|---------|
| ASPHALT       |                          | 8052-42-4  | 50 - 70 |
| WATER         |                          | 7732-18-5  | 20 - 40 |

Material name: HFMS-1 SDS US

| Chemical name                                  | Common name and synonyms | CAS number | %      |
|--|--------------------------|------------|--------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED LIGHT |                          | 64742-47-8 | 1 - 10 |
| KEROSINE (PETROLEUM),<br>HYDRODESULFURIZED     |                          | 64742-81-0 | 1 - 10 |
| NAPHTHALENE                                    |                          | 91-20-3    | < 1    |

## 4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of Skin contact

asphalt. Wash contact areas with soap and water. If needed, seek medical attention.

**Eve contact** Immediately flush eves 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.

Rinse mouth. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large **Ingestion** 

amount does occur, call a poison control center immediately.

Most important

symptoms/effects, acute and delaved

Direct contact with eyes may cause temporary irritation.

**Indication of immediate** medical attention and special Treat symptomatically.

treatment needed

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

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

**General information** 

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

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed:

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters 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.

**Specific methods** 

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

water spray.

General fire hazards

No unusual fire or explosion hazards noted.

### 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.

Material name: HFMS-1 SDS US 5262 Version #: 02 Revision date: 10-23-2019 Issue date: 05-06-2015 2/8

## 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 any 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. Do not allow material to freeze.

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

| US. OSHA Table Z-1 | Limits for Air   | Contaminants (29   | CFR 1910.1000)   |
|--------------------|------------------|--------------------|------------------|
| OS. OSDA Table Z-T | LIIIIILS IUI AII | CONTAININAILS ( Z: | 1 CLK TATO'TOOO! |

| Components                   | Туре | Value    |  |
|------------------------------|------|----------|--|
| NAPHTHALENE (CAS<br>91-20-3) | PEL  | 50 mg/m3 |  |
| •                            |      | 10 ppm   |  |

**US. ACGIH Threshold Limit Values** 

| Components   | Туре | Value     | Form            |
|--|------|-----------|-----------------|
| ASPHALT (CAS 8052-42-4)  | TWA  | 0.5 mg/m3 | Inhalable fume. |
| KEROSINE (PETROLEUM),<br>HYDRODESULFURIZED<br>(CAS 64742-81-0) | TWA  | 200 mg/m3 | Non-aerosol.    |
| NAPHTHALENE (CAS<br>91-20-3)                                   | TWA  | 10 ppm    |                 |

**US. NIOSH: Pocket Guide to Chemical Hazards** 

| Components  | Туре    | Value     | Form  |
|---|---------|-----------|-------|
| ASPHALT (CAS 8052-42-4)   | Ceiling | 5 mg/m3   | Fume. |
| DISTILLATES<br>(PETROLEUM),<br>HYDROTREATED LIGHT<br>(CAS 64742-47-8) | TWA     | 100 mg/m3 |       |
| KEROSINE (PETROLEUM),<br>HYDRODESULFURIZED<br>(CAS 64742-81-0)        | TWA     | 100 mg/m3 |       |
| NAPHTHALENE (CAS<br>91-20-3)  | STEL    | 75 mg/m3  |       |
|   |         | 15 ppm    |       |
|   | TWA     | 50 mg/m3  |       |
|   |         | 10 ppm    |       |

**Biological limit values** 

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

**Exposure guidelines** 

**US - California OELs: Skin designation** 

NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

KEROSINE (PETROLEUM), HYDRODESULFURIZED (CAS Can be absorbed through the skin.

64742-81-0)

NAPHTHALENE (CAS 91-20-3) Can be absorbed through the skin.

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

**Hand protection** Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style

gloves.

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**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.

## 9. Physical and chemical properties

**Appearance** Brown to black in color.

Physical state
Form
Color
Black.

Odor
Tar-like
Odor threshold
Not available.

Melting point/freezing point
Not available.

Initial boiling point and

boiling range

>= 212 °F (>= 100 °C)

Flash point > 212.0 °F (> 100.0 °C) Cleveland Open Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower 0.3 %

(%)

Flammability limit -

upper (%)

10 %

**Explosive limit - lower** Not available.

(%)

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure < 1 mm Hg @ 20 C

0.00001 hPa estimated

Vapor density > 1

**Relative density** Not available.

Solubility(ies)

Solubility (water) Not miscible

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature500 °F (260 °C)Decomposition temperatureNot available.Viscosity1500 cP

Other information

Specific gravity 0.99 @ 4 C

## 10. Stability and 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** Hazardous polymerization does not occur.

reactions

**Conditions to avoid**Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat

product.

**Incompatible materials** Strong oxidizing agents.

Material name: HFMS-1 SDS US

**Hazardous decomposition** 

products

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

### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected.

**Eye contact** May be irritating to eyes.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

**Acute toxicity** 

Components Species Test Results

NAPHTHALENE (CAS 91-20-3)

<u>Acute</u>

Dermal

LD50 Rabbit > 2 g/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

May be irritating to eyes.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** May cause skin disorders if contact is repeated or prolonged.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Suspected of causing cancer.

## IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans. NAPHTHALENE (CAS 91-20-3) 2B Possibly carcinogenic to humans.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### **US. National Toxicology Program (NTP) Report on Carcinogens**

NAPHTHALENE (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Not classified.

Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity

y Not classified.

- repeated exposure

**Aspiration hazard** Not available.

**Chronic effects** Prolonged exposure may cause chronic effects.

**Further information** This product has no known adverse effect on human health.

### 12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

| Product   | Species Test Results |         | Test Results                      |
|-----------|----------------------|---------|-----------------------------------|
| HFMS-1    |                      |         |                                   |
| Aquatic   |                      |         |                                   |
| Crustacea | EC50                 | Daphnia | 982.0791 mg/l, 48 hours estimated |
| Fish      | LC50                 | Fish    | 42.4969 mg/l, 96 hours estimated  |

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Components Species Test Results

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-47-8)

**Aquatic** 

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

NAPHTHALENE (CAS 91-20-3)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 1.09 - 3.4 mg/l, 48 hours
Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 1.11 - 1.68 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

Partition coefficient n-octanol / water (log Kow)

NAPHTHALENE 3.3

**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.

## 13. Disposal considerations

**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.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

### 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)** 

NAPHTHALENE (CAS 91-20-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **SARA 302 Extremely hazardous substance**

Not listed.

**Classified hazard** Acute toxicity (any route of exposure) **categories** Respiratory or skin sensitization

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |  |
|---------------|------------|----------|--|
| NAPHTHALENE   | 91-20-3    | < 1      |  |

#### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

NAPHTHALENE (CAS 91-20-3)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** Not regulated.

(SDWA)

### **US state regulations**

### **California Proposition 65**



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

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

NAPHTHALENE (CAS 91-20-3) Listed: April 19, 2002

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT (CAS 64742-47-8) KEROSINE (PETROLEUM), HYDRODESULFURIZED (CAS 64742-81-0) NAPHTHALENE (CAS 91-20-3)

#### **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                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |
|                             |  |                        |

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

# 16. Other information, including date of preparation or last revision

 Issue date
 05-06-2015

 Revision date
 10-23-2019

Version # 02

**Further information** HMIS® is a registered trade and service mark of the NPCA.

NFPA ratings Health: 2 Flammability: 1 Instability: 0

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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).

**References** ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written

based on the best knowledge and experience currently available.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety

Material name: HFMS-1 SDS US