

1. Identification

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| Product identifier | FDR EM HY |
| 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

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|------------------------------|-------------------------------|
| Physical hazards | Not classified. |
| Health hazards | Carcinogenicity Category 1 |
| Environmental hazards | Not classified. |
| OSHA defined hazards | Not classified. |

Label elements



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| Signal word | Danger |
| Hazard statement | May cause cancer. |
| Precautionary statement | |
| Prevention | 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 | 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) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|---------|
| ASPHALT | | 8052-42-4 | 50 - 70 |
| WATER | | 7732-18-5 | 30 - 50 |
| Distillates (petroleum), Heavy Naphthenic | | 64741-53-3 | < 5 |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent | | 64742-11-6 | < 2 |
| HYDROCHLORIC ACID | | 7647-01-0 | < 1 |
| Other components below reportable levels | | | 1.4 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

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| 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. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. If clothing sticks to the skin, do not remove. Lotion or hand cream may aid in the removal of asphalt. Wash contact areas with soap and water. If needed, seek medical attention. |
| Eye contact | Immediately flush eyes 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. |
| Ingestion | Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. DO NOT induce vomiting. Get medical attention immediately. |
| Most important symptoms/effects, acute and delayed | Direct contact with eyes may cause temporary irritation. Prolonged exposure may cause chronic effects. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed. |
| General information | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Carbon dioxide (CO ₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Unsuitable extinguishing media | 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 | In case of fire and/or explosion do not breathe fumes. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in flame. 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, cool tanks with water spray. In the event of fire and/or explosion do not breathe fumes. |
| General fire hazards | Highly flammable liquid and vapor. No unusual fire or explosion hazards noted. |

6. Accidental release measures

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| 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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
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Methods and materials for containment and cleaning up

Prevent runoff from entering drains, sewers, or streams.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. 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. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. All equipment used when handling the product must be grounded. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. 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. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Eliminate sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Do not allow material to freeze. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value | Form |
|--|---------|---------|-------|
| Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3) | PEL | 5 mg/m3 | Mist. |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent (CAS 64742-11-6) | PEL | 5 mg/m3 | Mist. |
| HYDROCHLORIC ACID (CAS 7647-01-0) | Ceiling | 7 mg/m3 | |
| | | 5 ppm | |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--|---------|-----------|---------------------|
| ASPHALT (CAS 8052-42-4) | TWA | 0.5 mg/m3 | Inhalable fume. |
| Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3) | TWA | 5 mg/m3 | Inhalable fraction. |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent (CAS 64742-11-6) | TWA | 5 mg/m3 | Inhalable fraction. |
| HYDROCHLORIC ACID (CAS 7647-01-0) | Ceiling | 2 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--|-------------|--------------|-------------|
| ASPHALT (CAS 8052-42-4) | Ceiling | 5 mg/m3 | Fume. |
| Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3) | STEL | 10 mg/m3 | Mist. |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent (CAS 64742-11-6) | TWA | 5 mg/m3 | Mist. |
| | STEL | 10 mg/m3 | Mist. |
| HYDROCHLORIC ACID (CAS 7647-01-0) | TWA | 5 mg/m3 | Mist. |
| | Ceiling | 7 mg/m3 | |
| | | 5 ppm | |

Biological limit values

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

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**

Chemical respirator with organic vapor cartridge and full facepiece. Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves. Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. 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

Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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

Liquid.

Form

Liquid.

Color

Brown

Odor

Mild. Tar-like

Odor threshold

Not available.

pH

2.1 - 4

Melting point/freezing point

89.6 °F (32 °C) estimated

Initial boiling point and boiling range

212 °F (100 °C)

Flash point

400.0 °F (204.4 °C)

Evaporation rate

< 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)**

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

< 1 mm Hg @ 20 C

Vapor density

> 1

Relative density

Not available.

| | |
|--|------------------------|
| Solubility(ies) | |
| Solubility (water) | Soluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 700 °F (> 371.11 °C) |
| Decomposition temperature | Not available. |
| Viscosity | 20 - 100 @25°C,SSF |
| Other information | |
| Specific gravity | 1.019 |

10. Stability and reactivity

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| 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 reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat product. |
| Incompatible materials | Strong oxidizing agents. Strong oxidizing agents. |
| 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

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|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | Expected to be a low ingestion hazard. |

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|---|--|
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. |
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Information on toxicological effects

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|-----------------------|------------|
| Acute toxicity | Not known. |
|-----------------------|------------|

| Product | Species | Test Results |
|----------------|----------------|---------------------|
| FDR EM HY | | |
| Acute | | |
| Dermal | | |
| LD50 | Mouse | 579600 mg/kg |
| Oral | | |
| LD50 | Rabbit | 360000 mg/kg |

| Components | Species | Test Results |
|-----------------------------------|----------------|---------------------|
| HYDROCHLORIC ACID (CAS 7647-01-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Mouse | 1449 mg/kg |

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|----------------------------------|--|
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
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|--|---|
| Serious eye damage/eye irritation | Direct contact with eyes may cause frostbite. |
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Respiratory or skin sensitization

| | |
|----------------------------------|--|
| Respiratory sensitization | None known. |
| Skin sensitization | Prolonged skin contact may cause temporary irritation. |

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|-------------------------------|------------|
| Germ cell mutagenicity | Not known. |
|-------------------------------|------------|

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|------------------------|-------------------|
| Carcinogenicity | May cause cancer. |
|------------------------|-------------------|

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4)

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Distillates (petroleum), Heavy Naphthenic
(CAS 64741-53-3)

Known To Be Human Carcinogen.

Extracts (petroleum), Heavy Naphthenic Distillate Solvent
(CAS 64742-11-6)

Known To Be Human Carcinogen.

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|---|---|
| Reproductive toxicity | Not available. |
| Specific target organ toxicity - single exposure | None known. |
| Specific target organ toxicity - repeated exposure | Not available. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | Prolonged exposure may cause chronic effects. |

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

| Product | Species | Test Results |
|----------------|-----------|----------------------------|
| FDR EM HY | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 Fish | 112800, 96 hours estimated |

| Components | Species | Test Results |
|-----------------------------------|--|---------------|
| HYDROCHLORIC ACID (CAS 7647-01-0) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 Western mosquitofish (Gambusia affinis) | 282, 96 hours |

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

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|--------------------------------------|---|
| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulative 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. |

13. Disposal considerations

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|--|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international 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. |
| 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 Annex II of MARPOL 73/78 and the IBC Code Not established.**15. Regulatory information****US federal regulations**

All components are on the U.S. EPA TSCA Inventory List.
 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ASPHALT (CAS 8052-42-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|-------------------|------------|------------------------------|--------------------------------------|---|---|
| HYDROCHLORIC ACID | 7647-01-0 | 5000 | 500 | | |

SARA 311/312 Hazardous chemical Yes**Classified hazard categories** Carcinogenicity**SARA 313 (TRI reporting)**

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.**US state regulations**

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

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

Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3)
 Extracts (petroleum), Heavy Naphthenic Distillate Solvent (CAS 64742-11-6)

California Proposition 65**WARNING:** WARNING: This product contains a chemical known to the State of California to cause cancer.**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|-------------------------------|
| 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 |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
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).

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

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|-----------------------------|--|
| Issue date | 05-16-2022 |
| Version # | 01 |
| Further information | HMIS® is a registered trade and service mark of the NPCA. |
| NFPA ratings | Health: 3 Flammability: 1 Instability: 0 |
| References | ACGIH ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices EPA: AQUIRE database IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents |
| 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. |
| Revision information | Product and Company Identification: Alternate Trade Names Physical & Chemical Properties: Multiple Properties Regulatory information: California Proposition 65 GHS: Classification |