# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **CMS-2P**

**Other means of identification** None.

**Recommended use** Mixing Grade Emulsion

**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 1B

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**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** 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 |
| Distillates (petroleum), Heavy Naphthenic | | 64741-53-3 | 1 - 10 |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent | | 64742-11-6 | 1 - 10 |
| HYDROCHLORIC ACID | | 7647-01-0 | < 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. |
| **Skin contact** | 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. DO NOT induce vomiting. Get medical attention immediately. If ingestion of a large amount does occur, call a poison control center immediately. |
| **Most important symptoms/effects, acute and delayed** | Direct contact with eyes may cause temporary irritation. |
| **Indication of immediate medical attention and special treatment needed** | Treat symptomatically. |
| **General information** | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

| | |
|---|---|
| **Suitable extinguishing media** | Foam. Dry chemical powder. Carbon dioxide (CO2). |
| **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** | 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.<br><br>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.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>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. |

## 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)**

| 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. |
| 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. |
| | TWA | 5 mg/m3 | Mist. |
| Extracts (petroleum), Heavy Naphthenic Distillate Solvent (CAS 64742-11-6) | STEL | 10 mg/m3 | Mist. |
| | TWA | 5 mg/m3 | Mist. |
| HYDROCHLORIC ACID (CAS 7647-01-0) | 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** Safety glasses. If risk of splashing, wear safety goggles or face shield.

**Skin protection**

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

**Other** Chemical/solvent resistant gloves are recommended. If contact with forearms is likely, use gauntlet-style gloves. Wear suitable protective clothing as protection against splashing or contamination.

**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** | |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Dark brown |
| **Odor** | Petroleum |
| **Odor threshold** | Not available. |
| **pH** | 2 - 5 |
| **Melting point/freezing point** | Not available. |
| **Initial boiling point and boiling range** | > 212 °F (> 100 °C) |
| **Flash point** | >= 212.0 °F (>= 100.0 °C) |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Same as water |
| **Vapor density** | Not available. |
| **Relative density** | 1 - 1.1 |
| **Solubility(ies)** | |
| **Solubility (water)** | Completely Soluble |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | 50 - 400 SFS at 122°F |
| **Other information** | |
| **Specific gravity** | 1 - 1.1 at 60°F (Water=1) |

## 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 reactions** | Hazardous polymerization does not occur. |
| **Conditions to avoid** | Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat product. |
| **Incompatible materials** | 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**

| | |
|---|---|
| **Inhalation** | Prolonged inhalation may be harmful. |
| **Skin contact** | Causes mild skin irritation. |
| **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 |
|---|---|---|
| HYDROCHLORIC ACID (CAS 7647-01-0) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Mouse | 1449 mg/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 irritation** May be irritating to eyes.

**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. |
| Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3) | 1 Carcinogenic to humans. |
| HYDROCHLORIC ACID (CAS 7647-01-0) | 3 Not classifiable as to carcinogenicity to humans. |

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

Not regulated.

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

| | |
|---|---|
| Distillates (petroleum), Heavy Naphthenic (CAS 64741-53-3) | Known To Be Human Carcinogen. |

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

**Chronic effects** Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping and oil acne.

**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 |
|---|---|---|---|
| CMS-2P | | | |
| **Aquatic** | | | |
| Fish | LC50 | Fish | 81902.1875 mg/l, 96 hours estimated |

| Components | | Species | Test Results |
|---|---|---|---|
| HYDROCHLORIC ACID (CAS 7647-01-0) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Western mosquitofish (Gambusia affinis) | 282 mg/l, 96 hours |

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

**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

**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 Annex II of MARPOL 73/78 and the IBC Code** Not available.

## 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)**

HYDROCHLORIC ACID (CAS 7647-01-0) Listed.

**SARA 304 Emergency release notification**

HYDROCHLORIC ACID (CAS 7647-01-0) 5000 LBS

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

Not regulated.

**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 | | |

**Classified hazard categories**
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Carcinogenicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard
Hazard not otherwise classified (HNOC)

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

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

HYDROCHLORIC ACID (CAS 7647-01-0)

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

HYDROCHLORIC ACID (CAS 7647-01-0)

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

HYDROCHLORIC ACID (CAS 7647-01-0) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

HYDROCHLORIC ACID (CAS 7647-01-0) 6545

**US state regulations**

**California Proposition 65**

**WARNING:** 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)
HYDROCHLORIC ACID (CAS 7647-01-0)

**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 |

*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

**Issue date** 04-27-2015

**Revision date** 03-27-2020

**Version #** 03

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

**NFPA ratings** Health: 2
Flammability: 1
Instability: 0

**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**

Hazard(s) identification: Hazard statement
Hazard(s) identification: Supplemental information
Composition / Information on Ingredients: Ingredients
Fire-fighting measures: Specific hazards arising from the chemical
Physical & Chemical Properties: Multiple Properties
Toxicological information: Carcinogenicity
Toxicological information: Eye contact
Toxicological information: Skin contact
Toxicological information: Eye contact
Transport Information: Proper Shipping Name/Packing Group
Regulatory Information: United States
Regulatory information: US state regulations
HazReg Data: International Inventories
GHS: Classification