

1. Identification

| | | |
|---|---|--|
| Product identifier | EP29XX Series Part B Coating and Lining (All Colors) | |
| Other means of identification | | |
| Synonyms | EP2900, EP2930 | |
| Recommended use | Not available. | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Company Name | ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc. | |
| Address | 2829 Lakeland Drive Jackson, MS 39232 USA | |
| After hours telephone number | 1-800-222-7122 | |
| Normal work hours telephone number | 1-877-982-7667 | |
| Website | www.ergonarmor.com | |
| E-mail | sds@ergon.com | |
| Emergency 24-hour telephone number | CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887 | |
| Information on operation hours | 8:00 a.m. to 5:00 p.m. | |

2. Hazard(s) identification

| | | |
|------------------------------|-----------------------------------|------------|
| Physical hazards | Not classified. | |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--------------------------------|--|
| Signal word | Warning |
| Hazard statement | Suspected of causing cancer by ingestion. Causes skin irritation. Causes serious eye irritation. |
| Precautionary statement | |
| Prevention | Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Contaminated work clothing should not be allowed out of the workplace. |
| Response | Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | Store in accordance with local/regional/national regulations. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|--|--------------------------|-------------|-----------|
| 4-METHYL-2-PENTANONE | | 108-10-1 | 15-25 |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL | | 90-72-2 | 10 |
| AMORPHOUS SILICA (RESPIRABLE DUST) | | 112926-00-8 | 5-15 |
| 2-PIPERAZIN-1-YLETHYLAMINE | | 140-31-8 | 1 - < 3 |
| 1-METHOXYPROPAN-2-OL | | 107-98-2 | < 0.3 |
| FATTY ACIDS, C18-UNSATD., DIMERS, REACTION PRODUCTS WITH 1-PIPERAZINEETHANAMINE AND TALL OIL | | 206565-89-1 | < 0.3 |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. | | 64742-95-6 | < 0.2 |
| ETHANOL | | 64-17-5 | < 0.1 |
| Other components below reportable levels | | | 70 - < 80 |

4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact

Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

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

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

Unsuitable extinguishing media

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

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. Following product recovery, flush area with water.

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. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions**7. Handling and storage****Precautions for safe handling**

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|-------------------------------------|------|-----------------------------------|
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | PEL | 410 mg/m3 |
| ETHANOL (CAS 64-17-5) | PEL | 100 ppm 1900 mg/m3 1000 ppm |

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value |
|--|------|-----------------------|
| AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8) | TWA | 0.8 mg/m3 20 mppcf |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------------------------|-------------|--------------------|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | STEL | 100 ppm |
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | TWA STEL | 50 ppm 75 ppm |
| ETHANOL (CAS 64-17-5) | TWA STEL | 20 ppm 1000 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|--|-------------|--|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | STEL | 540 mg/m3 150 ppm |
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | TWA STEL | 360 mg/m3 100 ppm 300 mg/m3 |
| AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8) | TWA | 75 ppm 205 mg/m3 50 ppm 6 mg/m3 |
| ETHANOL (CAS 64-17-5) | TWA | 1900 mg/m3 |

1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

| Components | Value | Determinant | Specimen | Sampling Time |
|--|--------|---------------------------|----------|---------------|
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | 1 mg/l | Methyl isobutyl ketone | Urine | * |

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

1-METHOXYPROPAN-2-OL (CAS 107-98-2) 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.

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

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 Grey.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 241.7 °F (116.5 °C) estimated

Flash point 248.0 °F (120.0 °C) estimated

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 Not available.

Vapor density Not available.

Relative density Not available.

| | |
|--|------------------------------|
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | 840 °F (448.89 °C) estimated |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 8.73 lbs/gal |

10. Stability and reactivity

| | |
|---|--|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | Causes skin irritation. |
| Eye contact | Causes eye irritation. |
| 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 |
|--|---------|--------------------|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 13 g/kg |
| Inhalation | | |
| LC50 | Rat | 54.6 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 5.71 g/kg |
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 16000 mg/kg |
| Inhalation | | |
| LC50 | Rat | 8.2 mg/l, 4 Hours |
| Oral | | |
| LD50 | Rat | 2080 mg/kg |
| AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | > 22500 mg/kg |

| Components | Species | Test Results |
|-----------------------|---------|--------------|
| ETHANOL (CAS 64-17-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 6.2 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 irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.
Skin sensitization May cause sensitization by skin contact.

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

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

IARC Monographs. Overall Evaluation of Carcinogenicity

4-METHYL-2-PENTANONE (CAS 108-10-1) 2B Possibly carcinogenic to humans.
 AMORPHOUS SILICA (RESPIRABLE DUST) (CAS 112926-00-8) 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product contains a substance which is toxic to aquatic organisms.

| Product | Species | Test Results |
|--|----------------|---|
| EP29XX Series Part B Coating and Lining (All Colors) | | |
| Aquatic | | |
| Fish | LC50 | Fish 4850.9541 mg/l, 96 hours estimated |
| Components | Species | Test Results |
| 2-PIPERAZIN-1-YLETHYLAMINE (CAS 140-31-8) | | |
| Aquatic | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) 1950 - 2460 mg/l, 96 hours |
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | | |
| Aquatic | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) 492 - 593 mg/l, 96 hours |
| ETHANOL (CAS 64-17-5) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) > 100 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.

Partition coefficient n-octanol / water (log Kow)

| | |
|----------------------|-------|
| 4-METHYL-2-PENTANONE | 1.31 |
| ETHANOL | -0.31 |

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 When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

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.

US RCRA Hazardous Waste U List: Reference

| | |
|-------------------------------------|------|
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | U161 |
|-------------------------------------|------|

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).

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)

| | |
|--|--|
| FATTY ACIDS, C18-UNSATD., DIMERS, REACTION PRODUCTS WITH 1-PIPERAZINEETHANAMINE AND TALL OIL (CAS 206565-89-1) | 1.0 % One-Time Export Notification only. |
|--|--|

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|-------------------------------------|---------|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | Listed. |
| 4-METHYL-2-PENTANONE (CAS 108-10-1) | Listed. |
| ETHANOL (CAS 64-17-5) | Listed. |

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|----------------------|------------|----------|
| 4-METHYL-2-PENTANONE | 108-10-1 | 10 |

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

4-METHYL-2-PENTANONE (CAS 108-10-1)

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

4-METHYL-2-PENTANONE (CAS 108-10-1)

Listed: November 4, 2011

ETHANOL (CAS 64-17-5)

Listed: April 29, 2011

Listed: July 1, 1988

US - California Proposition 65 - CRT: Listed date/Developmental toxin

ETHANOL (CAS 64-17-5)

Listed: October 1, 1987

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

1-METHOXYPROPAN-2-OL (CAS 107-98-2)

4-METHYL-2-PENTANONE (CAS 108-10-1)

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (CAS 64742-95-6)

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) | No |
| 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) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| 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 | 06-11-2015 |
| Revision date | 01-10-2018 |
| Version # | 02 |
| NFPA ratings | Health: 2 Flammability: 0 Instability: 0 |

Disclaimer

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

Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Material Transportation Information