### **SAFETY DATA SHEET**



#### 1. Identification

Product identifier ERTECH 2038

Other means of identification Not available.

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

Company Name Ergon Armor

Address 2829 Lakeland Drive

Jackson, MS 39232

USA

After hours telephone

itei ilouis telepilolle

1-800-222-7122

number

Normal work hours

1-877-982-7667

telephone number

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

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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	%
ASPHALT		8052-42-4	40 - 50
WATER		7732-18-5	40 - 50
CELLULOSE		9004-34-6	<1
KAOLIN		1332-58-7	< 0.2
Other components below reports	able levels		8.5389342244

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

## 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.

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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.

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

**Ingestion** 

**Indication of immediate** medical attention and special treatment needed

Direct contact with eyes may cause temporary irritation.

Treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to

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

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

During fire, gases hazardous to health may be formed.

protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

**Special protective equipment** 

and precautions for firefighters

Fire-fighting

equipment/instructions

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.

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. 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.

#### 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. Store away from incompatible materials (see Section 10 of the SDS). Do not allow material to freeze.

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## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	Туре	Value	Form
CELLULOSE (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
KAOLIN (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.
CELLULOSE (CAS 9004-34-6)	TWA	10 mg/m3	
KAOLIN (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
CELLULOSE (CAS 9004-34-6)	TWA	5 mg/m3	Respirable.
•		10 mg/m3	Total
KAOLIN (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

**Biological limit values** 

**Appropriate engineering** 

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other

engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Chemical goggles and face shield are recommended. Wear safety glasses with side shields (or **Eye/face protection** 

goggles).

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

aloves.

Other Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged

vapor contact. Plastic or rubber gloves, apron and boots.

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

**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** Heavy-consistency emulsion.

**Physical state** Liquid. **Form** Liquid. Color Brown

Odor Mild Petroleum Odor

**Odor threshold** n/a

Melting point/freezing point n/a / 373.1 °F (189.5 °C) estimated

Initial boiling point and

boiling range

> 212 °F (> 100 °C)

Flash point > 212.0 °F (> 100.0 °C)

**Evaporation rate** 

Flammability (solid, gas) Not available.

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Upper/lower flammability or explosive limits

Flammability limit - lower n/a

(%)

Flammability limit -

upper (%)

n/a

**Explosive limit - lower** 

(%)

**Explosive limit - upper** 

(%)

Not available.

Not available.

**Vapor pressure** 60 mm Hg at 100°F, approx.

**Vapor density** n/a **Relative density** n/a

Solubility(ies)

Solubility (water) Slightly
Partition coefficient n/a

(n-octanol/water)

Auto-ignition temperature > 400 °F (> 204.44 °C)

Decomposition temperaturen/aViscosity15000 cPViscosity temperature77 °F (25 °C)

Other information

**Density** 9.00 - 10.00 lb/gal

Flammability class Combustible IIIB estimated

**Specific gravity** 1.1 - 1.2

**VOC (Weight %)** 0.2 lb/gal maximum

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stabilityStable under normal temperature conditions.Possibility of hazardousHazardous 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.

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

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

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

**Eve contact** Harmful in contact with eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** 

Product Species		Test Results	
ERTECH 2038 (CAS Mixture)			
Acute			
Dermal			
LD50	Rat	30751.0645 mg/kg estimated	
Oral			
LD50	Rat	30751.0645 mg/kg estimated	

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**Species Test Results Components** KAOLIN (CAS 1332-58-7) **Acute** Dermal Rat LD50 > 5000 mg/kg Oral LD50 Rat > 5000 mg/kg

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

Serious eye damage/eye

irritation

Harmful in contact with eyes. None known.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

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

Not listed.

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
ERTECH 2038 (CAS M	lixture)		
Crustacea	EC50	Daphnia	9739.0898 mg/l, 48 hours estimated

<sup>\*</sup> 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.

Material name: ERTECH 2038 SDS US

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

### 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)** 

ASPHALT (CAS 8052-42-4)

Listed.

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

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

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

Not regulated.

Not regulated.

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

Not regulated.

**Safe Drinking Water Act** 

(SDWA)

**US state regulations** 

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

US. Massachusetts RTK - Substance List

ASPHALT (CAS 8052-42-4) CELLULOSE (CAS 9004-34-6) KAOLIN (CAS 1332-58-7)

**US. New Jersey Worker and Community Right-to-Know Act** 

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances** 

ASPHALT (CAS 8052-42-4) CELLULOSE (CAS 9004-34-6) KAOLIN (CAS 1332-58-7)

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

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

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

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990

**International Inventories** 

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

Australia Australian Inventory of Chemical Substances (AICS)

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Country(s) or region	Inventory name	On inventory (yes/no)*
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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
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) 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** 07-10-2015

Version # 01

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

**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.

Material name: ERTECH 2038 SDS US