

1. Product and Company Identification

Material name RS-1P
Version # 01
Revision date 02-07-2012
CAS # Mixture
Manufacturer
Manufacturer: Ergon Asphalt & Emulsions, Inc.
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 Jackson MS 39215-1639
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2. Hazards Identification

Emergency overview May cause irritation of respiratory tract. Material may be hot.
Potential health effects
Routes of exposure Inhalation. Eye contact.
Eyes Severely irritating to eyes. A significant thermal hazard under normal usage due to high temperatures required for application.
Skin Moderately irritating. Hot asphalt will cause severe burns. May lead to photosensitization and drying of the skin.
Inhalation Vapors may irritate throat and respiratory system and cause coughing. Prolonged inhalation may be harmful. Prolonged exposure may result in dizziness or nausea
Ingestion Irritating to mucous membranes and gastrointestinal tract. May cause thermal burns.
Potential environmental effects Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
ASPHALT	8052-42-4	60 - 70
Non-hazardous components	CAS #	Percent
WATER	7732-18-5	30 - 35
SODIUM HYDROXIDE	1310-73-2	0 - 2
Other components below reportable levels		20 - 35

4. First Aid Measures

First aid procedures
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.
Skin contact If molten asphalt strikes exposed skin, cool immediately by quenching with cold water. Lotion or hand cream may aid in the removal of asphalt. If clothing sticks to the skin, do not remove. Wash contact areas with soap and water. If needed, seek medical attention.
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.
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.

5. Fire Fighting Measures

Flammable properties

This product may ignite when sufficient heat is applied. Check for combustible vapors prior to and during welding or torch cutting on vessels or tank. It has been found that in hot storage tanks low flash substances may accumulate in the vapor space. Keep ignition sources away from tank vents and prevent accumulation or pyrophoric iron sulfide.

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

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. Use of foam or water may cause frothing.

Specific methods

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

Hazardous combustion products

Decomposition of this product may yield oxides of sulfur and nitrogen. Hydrogen sulfide Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods for containment

Ventilate area and avoid breathing vapors or mist. Prevent entry into waterways, sewer, basements or confined areas. Remove sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Methods for cleaning up

Dike far ahead of spill for later disposal. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal. Absorb spill with vermiculite or other inert material.

7. Handling and Storage

Handling

Avoid contact with molten material. Trace amounts of hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings. Do not add water to hot product. This may result in frothing of the mixture causing hot asphalt to overflow the container.

Storage

Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ASPHALT (8052-42-4)	TWA	0.5 mg/m ³	Inhalable fraction.
SODIUM HYDROXIDE (1310-73-2)	Ceiling	2 mg/m ³	

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

Components	Type	Value
SODIUM HYDROXIDE (1310-73-2)	PEL	2 mg/m ³

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.

Personal protective equipment

Eye / face protection	Goggles/face shield are recommended.
Skin protection	Wear appropriate clothing to prevent any possibility of skin contact with solutions containing 10% or more of this chemical. Plastic or rubber gloves, apron and boots.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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 & Chemical Properties

Appearance	Brown to black in color.
Physical state	Liquid.
Form	Liquid.
Color	Black.
Odor	Musty
Odor threshold	Not available.
pH	Not available.
Vapor pressure	23.76 mm Hg @ 25 C
Vapor density	Not available.
Boiling point	212 °F (100 °C)
Melting point/Freezing point	< 32 °F (< 0 °C)
Solubility (water)	Dispersable
Specific gravity	0.9 - 1.1
Relative density	Not available.
Flash point	> 212 °F (> 100 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal temperature conditions.
Conditions to avoid	Do not overheat product.
Incompatible materials	Strong oxidizing agents. Anionic Emulsion
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Hydrogen sulfide.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Test Results
RS-1P (Mixture)	Acute Other LD50 Mouse: 18223.2344 mg/kg estimated
Components	Test Results
SODIUM HYDROXIDE (1310-73-2)	Acute Other LD50 Mouse: 40 mg/kg
Local effects	Contact may irritate or burn eyes.
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful.
Carcinogenicity	Hazardous by OSHA criteria.
ACGIH Carcinogens	
ASPHALT (CAS 8052-42-4)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

ASPHALT (CAS 8052-42-4)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicological data

Product

RS-1P (Mixture)

Test Results

EC50 Daphnia: 15758.542 mg/l 48 hours estimated

LC50 Fish: 56784.9492 mg/l 96 hours estimated

Components

SODIUM HYDROXIDE (1310-73-2)

Test Results

EC50 Water flea (Ceriodaphnia dubia): 34.59 - 47.13 mg/l 48 hours

LC50 Western mosquitofish (Gambusia affinis): 125 mg/l 96 hours

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

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

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

Not regulated

DEA Essential Chemical Code Number

Not regulated

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

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

CERCLA (Superfund) reportable quantity

SODIUM HYDROXIDE: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region

Australia

Canada

Canada

Inventory name

Australian Inventory of Chemical Substances (AICS)

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL)

On inventory (yes/no)*

Yes

Yes

No

Country(s) or region	Inventory name	On inventory (yes/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)	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

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

State regulations 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 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

ASPHALT (CAS 8052-42-4) Listed.

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

ASPHALT (CAS 8052-42-4) Listed.

SODIUM HYDROXIDE (CAS 1310-73-2) Listed.

US - Pennsylvania RTK - Hazardous Substances: Special hazard

ASPHALT (CAS 8052-42-4) Special hazard.

16. Other Information

Further information

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

HMIS® ratings

Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of OSHA.

Issue date

Not available.

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Material Transportation Information
Regulatory Information: United States