SAFETY DATA SHEET



1. Identification

Product identifier KEM-2
Other means of identification None.

Recommended useNot 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

Physical hazards Not classified.

Health hazards Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2
Carcinogenicity Category 1B
Reproductive toxicity Category 2
Specific target organ toxicity, repeated Category 1

exposure

Environmental hazardsNot classified. **OSHA defined hazards**Not classified.

Label elements



Signal word Danger

Hazard statementCauses skin irritation. Causes serious eye irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Do

not breathe dust/fume/gas/mist/vapors/spray. 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Molten asphalt presents a thermal hazard.

Supplemental information Not applicable.

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3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT		64742-04-7	50 - 70
EXTRACTS, (PETROLEUM), RESIDUAL OIL SOLVENT		64742-10-5	10 - 20
SODIUM HYDROXIDE		1310-73-2	1- 10

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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

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. Direct contact with eyes may cause temporary irritation.

Most important

symptoms/effects, acute and

delayed

Ingestion

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

Unsuitable extinguishing

media

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

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

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.

Fire fighting 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.

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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. 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. 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

Components	Туре	Value	Form	
EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT (CAS 64742-04-7)	PEL	5 mg/m3	Mist.	
EXTRACTS, (PETROLEUM), RESIDUAL OIL SOLVENT (CAS 64742-10-5)	PEL	5 mg/m3	Mist.	
SODIUM HYDROXIDE (CAS 1310-73-2)	PEL	2 mg/m3		
US. ACGIH Threshold Limi	t Values			
Components	Туре	Value	Form	
EXTRACTS, (PETROLEUM), RESIDUAL OIL SOLVENT (CAS 64742-10-5)	TWA	5 mg/m3	Inhalable fraction.	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3		
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре	Value	Form	
EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT (CAS 64742-04-7)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
EXTRACTS, (PETROLEUM), RESIDUAL OIL SOLVENT (CAS 64742-10-5)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	
SODIUM HYDROXIDE (CAS 1310-73-2)	Ceiling	2 mg/m3		
logical limit values	No biological exposure limits noted for the ingredient(s).			
propriate engineering trols	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.			

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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.

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

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.

Not available. **Form** Not available. Color Not available. Odor **Odor threshold** Not available. 12.5 - 13.5

Melting point/freezing point 613.4 °F (323 °C) estimated

Initial boiling point and

boiling range

>= 212 °F (>= 100 °C)

Flash point > 212.0 °F (> 100.0 °C) Cleveland Open Cup 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 0.82 hPa estimated

Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Not available. **Partition coefficient**

(n-octanol/water)

750 °F (398.89 °C) estimated **Auto-ignition temperature**

Decomposition temperature Not available. Viscosity Not available.

Other information

Specific gravity 1.05

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.

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Possibility of hazardous

reactions

products

Hazardous polymerization does not occur.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not overheat

product.

Incompatible materials

Hazardous decomposition

Strong oxidizing agents.

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 Prolonged skin contact may cause temporary 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

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

Information on toxicological effects

Acute toxicity Not available.

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

Serious eye damage/eye

May be irritating to eyes.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Prolonged skin contact may cause temporary irritation.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC 1 Carcinogenic to humans.

DISTILLATE SOLVENT (CAS 64742-04-7)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC Known To Be Human Carcinogen.

DISTILLATE SOLVENT (CAS 64742-04-7)

EXTRACTS, (PETROLEUM), RESIDUAL OIL SOLVENT (CAS Known To Be Human Carcinogen.

64742-10-5)

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Product	Species Test		Test Results
KEM-2			
Aquatic			
Crustacea	EC50	Daphnia	1184.589 mg/l, 48 hours estimated
Fish	LC50	Fish	4280.8218 mg/l, 96 hours estimated

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Test Results Components **Species**

SODIUM HYDROXIDE (CAS 1310-73-2)

Aquatic

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

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

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.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company. Not applicable.

Waste from residues /

Dispose of in accordance with local regulations. Empty containers or liners may retain some product unused products 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.

Not available.

14. Transport information

DOT

UN number UN3267

UN proper shipping name Corrosive, liquid, basic, organic, n.o.s. (contains Sodium Hydroxide)

Transport hazard class(es)

Class 8 **Subsidiary risk** Label(s) 8 Packing group III

Special precautions for

user

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 154 203 Packaging non bulk Packaging bulk 241

IMDG

UN number UN3267

UN proper shipping name Corrosive, liquid, basic, organic, n.o.s. (contains Sodium Hydroxide)

Transport hazard class(es)

Class 8 **Subsidiary risk** Packing group III**Environmental hazards**

> Marine pollutant No.

EmS Not available. Special precautions for Not available.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78

and the IBC Code

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



IMDG



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)

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

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Yes

Hazardous chemical

Classified hazard Skin corrosion or irritation

categories Serious eye damage or eye irritation

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

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 Not regulated.

(SDWA)

US state regulations

California Proposition 65

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))

EXTRACTS (PETROLEUM), HEAVY PARAFFINIC DISTILLATE SOLVENT (CAS 64742-04-7)

Material name: KEM-2 sps us

Inventory name

International Inventories

Country(s) or region

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

On inventory (yes/no)*

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

03-23-2015 **Issue date Revision date** 10-23-2019

Version #

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 quidance 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 This document has undergone significant changes and should be reviewed in its entirety

Material name: KEM-2 SDS US 8/8

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^{*}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).