ECOPAV

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: **ECOPAV**
Recommended use: Cold-mix / Pavement and Repair

2. HAZARD IDENTIFICATION (NFPA)

Reactivity	0
Health hazards	1
Fire hazards	2
Ratings: 0=Least, 1=Slight, 2=Moderate, 3=High, 4=Extreme	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	Content
Bitumen	8052-42-4	65-90%
Petroleum distillate	TSCA Inventory	5-20%
Water	61790-12-3	1-20%

Additional Comments: Though further detail on contents may be confidential, all pertinent hazards are addressed in this MSDS.

4. FIRE-AID MEASSURES

Inhalation: Remove victim from exposure to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide oxygen by trained personnel. Seek immediate medical attention.
Skin Contact Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and large amounts of water until no evidence of material remains. If redness or irritation occurs seek medical attention.
Eye Contact Check for and remove any contact lenses. Promptly wash eyes with large amounts of water. Lift upper and lower lids until no evidence of material remains (15-20 minutes). Seek immediate medical attention.
Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE AND EXPLOSION DATA

Flash Point and Method ºF: >400
Flammability Limits: Lower NA Upper NA
Extinguishing Media: See Chapter 5
Auto Ignition Limits (ºF): NA
Extinguishing media Dry chemical, CO2, Halon, Water Spray, or Standard Foam
Move containers from fire area if possible. Cool fire-exposed containers with water from side until well after fire is out.
Stay away from storage tank end for massive fire in storage area. Extinguish only if flow can be stopped. Avoid breathing toxic vapors and keep upwind.
Hazardous combustion products may include carbon monoxide and unidentified organic compounds.

6. ACCIDENTAL RELEASE AND AID MEASURES

Personal precautions No action should be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering the spill site. Use appropriate personal protective equipment (see Section 8).
Environmental precautions Prevent product from entering storm drains, sewers, streams or other bodies of water. Inform the appropriate authorities if product has entered such areas.
Methods for cleaning up Stop leak if without risk. Remove containers from spill area. Avoid using water as this will spread the spilled material. Absorb product with an inert material such as sand or earth and transfer the spilled material and absorbent to an appropriate waste disposal container. Dispose of waste according to applicable regulations. Large spills if contained may be pumped back into a storage container if a filter is in place to catch debris.
Product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions.
Protection for first-aid workers No action should be taken involving any personal risk or without suitable
training.

7. HANDLING AND STORAGE

Handling Put on appropriate personal protective equipment (see Section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and used. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Store the product in its original container or acceptable alternative. Keep containers tightly closed when not in use.
Storage Store in accordance with local regulations. Store in original container and keep tightly sealed. Shelf life of product is maximized when protected from direct sunlight and stored in a cool well-ventilated area. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits US. ACGIH Threshold Limit Values

Components	Type	Value	Form
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.
FUELS, DIESEL, NO. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.

Biological limit values: No biological exposure limits noted.
Exposure guidelines: Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
US ACGIH Threshold Limit Values: Skin designation FUELS, DIESEL, NO. 2 (CAS 68476-34-6) Can be absorbed through the skin.
Appropriate engineering controls: Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection measures, such as personal protective equipment
Eye/face protection Safety glasses.
Skin and Hands protection. Wear protective gloves.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Bitumen, Dark Brown Liquid
Odor: Petroleum Odor
Initial boiling point: > 700 °F (> 225 °C)
Auto-ignition temperature: 905 °F (485 °C) estimated
Decomposition temperature: Not available
Viscosity: > 1000 cSt
Other information Percent volatile < 2 %
Specific gravity: 0.9 - 0.99
Vapor Density: > 1
PH: Neutral

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal temperature conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Heat, flames and sparks. Avoid high temperatures.
Incompatible materials: Oxidizing materials.
Hazardous decomposition products: Irritants. Upon decomposition, product emits acrid dense smoke with carbon dioxide, carbon monoxide, trace oxides of nitrogen and sulfur, and water.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation: Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact: Molten material will produce thermal burns.
Eye contact: Molten material will produce thermal burns. Harmful in contact with eyes.
Ingestion: May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. However, ingestion is not likely to be a primary route of occupational exposure.
Information on toxicological effects
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.
IARC Monographs. Overall Evaluation of Carcinogenicity: Not listed.
US. National Toxicology Program (NTP) Report on Carcinogens: Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not regulated.
Chronic effects: Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.

12. DISPOSAL CONSIDERATIONS

Residues/Material Disposal In most cases product will be completely used. Dispose of residue in accordance with local and national regulations. Do not dispose into the environment, in drains, or in water courses.
Pollution Container and Packing Dispose in accordance to prevailing regulations, preferably to a recognized collector or contractor. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

13. TRANSPORT INFORMATION

UN No.: Not Regulated
Proper shipping Name: Not Applicable / Class: Not Applicable
RID/ADR information: This material is not classified as dangerous under ADR regulations.
IMo information: This material is not classified as dangerous under IMO regulations /
IATA information: This material is not classified as dangerous under IATA regulations. Country variations may apply.
Rail and road trans info: No restrictions /
Marine trans info: No restrictions
Specific precautionary transport measures None recommended and conditions

14. REGULATORY INFORMATION

The following regulatory information is not intended to be comprehensive. Other regulations may apply to this product.
D.O.T. Proper Shipping Name (49 CFR 172.101)
D.O.T. Hazard Class (49 CFR 172.101) Not Applicable
UN / NA Code (49 172.101) Not Applicable
Packaging Group (49 172.101) Not Applicable
Bill Of Lading Description (49 172.101) Non-hazardous Emulsion
D.O.T. Labels Required (49 172.101) Not Applicable
D.O.T. Placards Required (49 172.101) Not Applicable

15. OTHER INFORMATION

SDS Effective Date: January 1, 2022. SDS Revisions:
Uses and Restrictions: This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.
SDS Distribution: The information in this document should be made available to all who may handle the product.
Disclaimer: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
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