

**Safety Data Sheet**

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

**Initial Preparation Date:** 01.19.2021

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**Revision date:** 02.03.2026**Kendex 0851****SECTION 1: Identification****Product Identifier****Product Name:** Kendex 0851**Product code:** 4571**Recommended Use of the Chemical and Restrictions on Use:****Recommended Uses:** Viscosity Builder**Restrictions on Use:** Not determined or not applicable.**Manufacturer or Supplier Details****Manufacturer:****United States**American Refining Group  
77 North Kendall Avenue  
Bradford, Pennsylvania 16701  
814-368-1297  
msds@amref.com  
amref.com**Emergency Telephone Number:****United States**CHEMTREC  
1-800-424-9300 (24 Hours)**United States**American Refining Group  
814-368-1297 (24 Hours)**SECTION 2: Hazard Identification****Classification of the chemical in accordance with paragraph (d) of § 1910.1200:** Not a hazardous substance or mixture**Label elements****Hazard Symbol(s):** None**Signal Word:** None**Hazard statement(s):** None**Precautionary Statement(s):** None**Hazards Not Otherwise Classified:** None**SECTION 3: Composition/Information on Ingredients**

Identification	Name	Weight %
CAS Number: 64742-01-4	Residual oils (petroleum), solvent-refined	45-50
CAS Number: 64742-16-1	Petroleum resins	25-30

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CAS Number: 8052-42-4	Asphalt	20-25
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**Additional information:** No additional information

## SECTION 4: First Aid Measures

### Description of Necessary Measures

#### General Notes:

Not determined or not applicable.

#### After Inhalation:

Move exposed person to fresh air. Get medical attention if irritation develops

#### After Skin Contact:

In case of contact, flush skin with plenty of soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops

#### After Eye Contact:

Check for and remove any contact lenses. Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation develops

#### After Ingestion:

First aid is normally not required. Get medical attention if discomfort develops

### Most Important Symptoms and Effects, Both Acute and Delayed

#### Acute Symptoms and Effects:

Not determined or not applicable.

#### Delayed Symptoms and Effects:

Not determined or not applicable.

### Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

#### Immediate Medical Attention:

No additional information.

#### Special Treatment:

No additional information.

#### Notes for the Doctor:

No specific treatment. Treat symptomatically. Contact poison treatment specialist if irritation occurs

## SECTION 5: Firefighting Measures

### Extinguishing Media

#### Suitable Extinguishing Media:

Use dry chemical, CO<sub>2</sub>, water spray (FOG) or foam

#### Unsuitable Extinguishing Media:

Avoid solid water stream as it may scatter and spread fire

### Specific Hazards Arising From The Chemical:

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide

### Special Protective Equipment and Precautions for Fire-Fighters

#### Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

#### Special precautions

Not determined or not applicable.

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## SECTION 6: Accidental Release Measures

### Personal Precautions, Protective Equipment, and Emergency Procedures:

Put on appropriate personal protective equipment

### Environmental Precautions:

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas

### Methods and Material for Containment and Cleaning Up:

Stop leak if without risk. A vapor suppressing foam may be used to reduce vapors. Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container

## SECTION 7: Handling and Storage

### Precautions for Safe Handling:

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

### Conditions for Safe Storage, Including Any Incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from light. Keep in properly labeled containers. Keep out of the reach of children. Incompatibilities: Oxidizing Agents

## SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

### Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Asphalt	8052-42-4	8-Hour TWA: 0.5 mg/m <sup>3</sup> (fume, as benzene-soluble aerosol, inhalable fraction)
	Residual oils (petroleum), solvent-refined	64742-01-4	8-Hour TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction)
NIOSH	Asphalt	8052-42-4	Ceiling Limit: 5 mg/m <sup>3</sup> (fumes [15 min])
United States(California)	Asphalt	8052-42-4	8-Hour TWA: 5 mg/m <sup>3</sup> (Asphalt (petroleum) fumes)

### Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Asphalt	8052-42-4	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	ESW	2.5 µg/l

### Information on Monitoring Procedures:

Not determined or not applicable.

### Appropriate Engineering Controls:

Material should be handled in enclosed vessels and equipment only if aerosolized and/or misted. Use only in adequate ventilation if this occurs. Use process enclosures, local exhaust ventilation or other

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engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual Protection Measures, Such as Personal Protective Equipment

#### Eye and Face Protection:

Safety glasses.

#### Skin and Body Protection:

Normal work gloves are appropriate.

#### Respiratory Protection:

No special requirements under ordinary conditions of use and with adequate ventilation.

### General Hygienic Measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

## SECTION 9: Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

Physical state	Liquid
Color	Opaque
Odor (includes odor threshold)	Petroleum Oil
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>600°F
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	575°F
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	62 cSt (40°C mm <sup>2</sup> /s)
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	>10
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	7.5 lbs/gal
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

### Other Information

No additional information.

## SECTION 10: Stability and Reactivity

### Reactivity:

Polymerization will not occur.

### Chemical Stability:

Stable under normal conditions.

### Possibility of hazardous reactions, including those associated with foreseeable emergencies:

None, under normal processing.

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## Conditions to Avoid:

High temperatures, flames, sparks.

## Incompatible Materials:

Strong acids and oxidizing materials.

## Hazardous Decomposition Products:

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

## SECTION 11: Toxicological Information

### Acute Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

#### Substance Data:

Name	Route	Result
Asphalt	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >94.4 mg/m <sup>3</sup> (4.5 h [mixed aerosol and vapor, Read-across substance data])
	dermal	LD50 Rabbit: >2000 mg/kg
Petroleum resins	oral	LD50 Rat: >2000 mg/kg
Residual oils (petroleum), solvent-refined	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >5.3 mg/L (4 hr [Aerosol])
	dermal	LD50 Rabbit: >5000 mg/kg

### Skin Corrosion/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Serious Eye Damage/Irritation

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Respiratory or Skin Sensitization

**Assessment:** Based on available data, the classification criteria are not met.

#### Product Data:

No data available.

**Substance Data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:** No data available.

#### International Agency for Research on Cancer (IARC):

Name	Classification
Petroleum resins	Not Applicable
Residual oils (petroleum), solvent-refined	Not Applicable

#### National Toxicology Program (NTP):

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Name	Classification
Asphalt	Not Applicable
Petroleum resins	Not Applicable
Residual oils (petroleum), solvent-refined	Not Applicable

**OSHA Carcinogens:** Not applicable

## Germ Cell Mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

## Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

## Specific Target Organ Toxicity (Single Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

## Specific Target Organ Toxicity (Repeated Exposure)

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

## Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

### Product Data:

No data available.

**Substance Data:** No data available.

## Information on Likely Routes of Exposure:

No data available.

## Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

### Interactive effects:

No additional information.

### Other Information:

No additional information.

## SECTION 12: Ecological Information

### Ecotoxicity

#### Acute (Short-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

**Substance Data:**

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Name	Result
Asphalt	Aquatic Plants EC50 Raphidocelis subcapitata: >1000 mg/L (72 hr [EL50 - growth rate, Read-across substance data])
	Fish LC50 Oncorhynchus mykiss: > 1000 mg/L (96 hr [LL50 - mortality, Read-across substance data])
Petroleum resins	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodemus subspicatus: > 100 mg/L (72 hr [Growth rate & Yield])

## Chronic (Long-Term) Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product Data:** No data available.

### Substance Data:

Name	Result
Asphalt	Fish NOEC Oncorhynchus mykiss: >1000 mg/L (28 d [NOEL - mortality, Read-across substance data])
	Aquatic Invertebrates NOEC Daphnia magna: >= 1000 mg/L (21 d [NOEL - reproduction, Read-across substance data])

## Persistence and Degradability

**Product Data:** No data available.

### Substance Data:

Name	Result
Asphalt	Standard biodegradability studies are not applicable to petroleum UVCB substances.
Petroleum resins	The substance is not readily biodegradable. 18% degradation measured by CO2 evolution after 28 days.
Residual oils (petroleum), solvent-refined	The substance is inherently biodegradable. 3.41% degradation measured by O2 consumption after 28 days.

## Bioaccumulative Potential

**Product Data:** No data available.

### Substance Data:

Name	Result
Asphalt	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
Residual oils (petroleum), solvent-refined	The substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

## Mobility in Soil

**Product Data:** No data available.

### Substance Data:

Name	Result
Asphalt	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
Residual oils (petroleum), solvent-refined	The substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

## Results of PBT and vPvB assessment

**Product Data:**

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**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

## Substance Data:

### PBT assessment:

Asphalt	Standard PBT studies are not applicable to petroleum UVCB substances.
Residual oils (petroleum), solvent-refined	The substance is not PBT.

### vPvB assessment:

Asphalt	Standard vBvB studies are not applicable to petroleum UVCB substances.
Residual oils (petroleum), solvent-refined	The substance is not vPvB.

**Other Adverse Effects:** No additional information.

## SECTION 13: Disposal Considerations

### Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

### Contaminated packaging:

Not determined or not applicable.

## SECTION 14: Transport Information

### United States Transportation of Dangerous Goods (49 CFR DOT)

<b>UN Number</b>	3257
<b>UN Proper Shipping Name</b>	Elevated Temperature Liquid Petroleum Lubricating Oil
<b>UN Transport Hazard Class(es)</b>	9 
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	Only considered hazardous if the material is "offered for transport" at or above 212 degrees Fahrenheit.

### International Maritime Dangerous Goods (IMDG)

<b>UN Number</b>	3257
<b>UN Proper Shipping Name</b>	Elevated Temperature Liquid Petroleum Lubricating Oil
<b>UN Transport Hazard Class(es)</b>	9 
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	Only considered hazardous if the material is "offered for transport" at or above 212 degrees Fahrenheit.

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## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

<b>UN Number</b>	3257
<b>UN Proper Shipping Name</b>	Elevated Temperature Liquid Petroleum Lubricating Oil
<b>UN Transport Hazard Class(es)</b>	9 
<b>Packing Group</b>	III
<b>Environmental Hazards</b>	None
<b>Special Precautions for User</b>	None
<b>Additional Information</b>	Only considered hazardous if the material is "offered for transport" at or above 212 degrees Fahrenheit.

## Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

<b>Bulk Name</b>	Not Applicable
<b>Ship Type</b>	Not Applicable
<b>Pollution Category</b>	Not Applicable

## SECTION 15: Regulatory Information

### United States Regulations

**Inventory Listing (TSCA):** All ingredients are listed-active or exempt.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 Extremely Hazardous Substances:** None of the ingredients are listed.

**SARA Section 313 Toxic Chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

#### Massachusetts Right to Know:

8052-42-4	Asphalt	Listed
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#### New Jersey Right to Know:

8052-42-4	Asphalt	Listed
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#### New York Right to Know:

8052-42-4	Asphalt	Listed
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#### Pennsylvania Right to Know:

8052-42-4	Asphalt	Listed
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**California Proposition 65:** None of the ingredients are listed.

**Additional information:** No additional information.

## SECTION 16: Other Information

### Disclaimer:

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in

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**NFPA:** 0-1-0

**HMIS:** 0-1-0

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**End of Safety Data Sheet**