

1. Identification

Product identifier 180-220 Pen Asphalt
Other means of identification
Product Code 1660
Recommended use Not available.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer: Tricor Refining, LLC.
Address: P.O. Box 5877
 Bakersfield, CA 93388
24-hour Telephone Number: (661) 393-7110
CHEMTREC: 1-800-424-9300 (North America)
 1-703-527-3887 (International)

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Carcinogenicity Category 2
Environmental hazards Not classified.
OSHA defined hazards Not classified.

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements


Signal word Warning
Hazard statement Suspected of causing cancer.
Precautionary statement
Prevention Wear protective gloves/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Response IF exposed or concerned: Get medical advice/attention.
Storage Store locked up.
Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC) Molten asphalt presents a thermal hazard.
Supplemental information None.

3. Composition/information on ingredients
Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|-------|
| ASPHALT | | 8052-42-4 | < 100 |
| DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC | | 64741-96-4 | < 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

Immediately place the affected skin under running water for at least 20 minutes - DO NOT DELAY. Prolonged flushing/cooling is necessary. Ice (or "cold packs") may be used in the event that water is unavailable. Do not attempt to remove the asphalt. Do not place any sheets or towels on top of the asphalt due to the risk of adhesion. Get immediate 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 or advice.

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.

Most important symptoms/effects, acute and delayed

Not available.

5. Fire-fighting measures

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.

Specific hazards arising from the chemical

Not applicable.

Special 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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Methods and materials for containment and cleaning up

Dike far ahead of spill for later disposal. 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

Not available.

7. Handling and storage

Precautions for safe handling

Avoid contact with molten material. 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

Conditions for safe storage, including any incompatibilities

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

Material

180-220 Pen Asphalt

Type

TWA

Value

0.5 mg/m³

Form

Inhalable fraction.

Components

DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)

Type

TWA

Value

5 mg/m³

Form

Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

| Material | Type | Value | Form |
|--|---|---------------------|-------------|
| 180-220 Pen Asphalt | Ceiling | 5 mg/m ³ | Fume. |
| Biological limit values | No biological exposure limits noted for the ingredient(s). | | |
| Appropriate engineering controls | Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. | | |
| Individual protection measures, such as personal protective equipment | | | |
| Eye/face protection | Safety glasses. Wear face shield if there is risk of splashes. | | |
| Skin protection | | | |
| Hand protection | Thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves. | | |
| Other | Normal work clothing (long sleeved shirts and long pants) is recommended. Wear 100% cotton clothing. | | |
| Respiratory protection | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. | | |
| Thermal hazards | During product use, there is a risk of thermal burns. | | |
| 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 | Brown to black in color. | | |
| Physical state | Liquid. | | |
| Form | Semi-solid at ambient temperature | | |
| Color | Black. | | |
| Odor | Tar-like | | |
| Odor threshold | Not available. | | |
| pH | Not available. | | |
| Melting point/freezing point | Not available. | | |
| Initial boiling point and boiling range | > 700 °F (> 371.11 °C) | | |
| Flash point | > 450.0 °F (> 232.2 °C) | | |
| 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 | < 1 mm Hg at 70F | | |
| Vapor density | > 5 | | |
| Relative density | Not available. | | |
| Solubility(ies) | | | |
| Solubility (water) | Insoluble | | |
| Partition coefficient (n-octanol/water) | Not available. | | |
| Auto-ignition temperature | > 700 °F (> 371.11 °C) | | |
| Decomposition temperature | Not available. | | |
| Viscosity | Not available. | | |

Other information

Specific gravity 0.98 - 1.04

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.

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid 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

Inhalation May cause irritation to the respiratory system.

Skin contact Molten material will produce thermal burns.

Eye contact Molten material will produce thermal burns.

Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Not available.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Not available.

Serious eye damage/eye irritation Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity Contains polycyclic aromatic compounds (PACs). Prolonged and/or repeated skin contact with certain PACs has been shown to cause skin cancer. Prolonged and/or repeated exposures by inhalation of certain PACs may also cause cancer of the lung and of other sites of the body

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity - single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity This product has no known eco-toxicological effects.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects Not available.

13. Disposal considerations

| | |
|--|---|
| Disposal instructions | Allow molten resin to solidify before disposal. Dispose in accordance with all applicable regulations. When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. |
| Hazardous waste code | Not applicable. |
| Waste from residues / unused products | 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). |
| Contaminated packaging | No special precautions. |

14. Transport information

DOT

| | |
|-------------------------------------|---|
| UN number | UN3257 |
| UN proper shipping name | Elevated temperature liquid, n.o.s. (ASPHALT) |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packing group | III |
| Special precautions for user | Not available. |

IATA

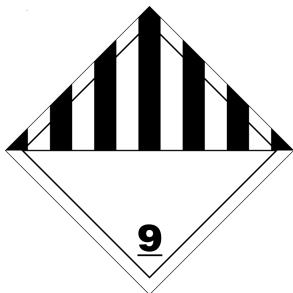
| | |
|-------------------------------------|----------------|
| UN number | Not available. |
| UN proper shipping name | Forbidden |
| Transport hazard class(es) | |
| Class | Forbidden |
| Subsidiary risk | - |
| Packing group | Not available. |
| Environmental hazards | No. |
| Special precautions for user | Not available. |

IMDG

| | |
|-------------------------------------|---|
| UN number | UN3257 |
| UN proper shipping name | Elevated temperature liquid, n.o.s. (ASPHALT) |
| Transport hazard class(es) | |
| Class | 9 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | Not available. |
| Special precautions for user | Not available. |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

DOT; IMDG



Further information Shipping Marking: HOT. Transport by air is forbidden when shipped above 212°F (100°C).

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not 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 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 (SDWA) Not regulated.

US state regulations

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

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| 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) | No |
| 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 |

*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 | 05-11-2015 |
| Revision date | 10-10-2018 |
| Version # | 03 |
| Further information | HMIS® is a registered trade and service mark of the NPCA. |
| NFPA ratings | Health: 2 Flammability: 1 Instability: 0 |

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.

Revision information

Physical & Chemical Properties: Multiple Properties
Regulatory Information: United States
HazReg Data: International Inventories