M TRICOR

SAFETY DATA SHEET

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/Suppli	ier/Distributor information
Manufacturer	
Manufacturer:	Tricor Refining, LLC.
Address:	P.O. Box 5877
	Bakersfield, CA 93388
24-hour Telephone	(661) 393-7110
Number:	
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 "Classificatio	on not possible".

Label elements



Signal word	Warning
Hazard statement	Suspected of causing cancer.
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.

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

Components	Туре	Value	Form	
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	PEL	5 mg/m3	Mist.	
US. ACGIH Threshold Limit Values				
Material	Туре	Value	Form	
180-220 Pen Asphalt (CAS Mixture)	TWA	0.5 mg/m3	Inhalable fraction.	
Components	Туре	Value	Form	
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.	
DISTILLATES	TWA	5 mg/m3	Inhalable fraction.	
(PETROLEUM),				
SOLVENT-REFINED HEAVY				
NAPHTHENIC (CAS				
64741-96-4)				
erial name: 180-220 Pen Asphalt				SDS U

Material	Туре	Value	Form
180-220 Pen Asphalt (CAS Mixture)	Ceiling	5 mg/m3	Fume.
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4)	STEL	10 mg/m3	Mist.
,	TWA	5 mg/m3	Mist.
logical limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering htrols	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.		
lividual protection measure	s, such as personal protective equ	ipment	
Eye/face protection	Safety glasses. Wear face shield if there is risk of splashes.		
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.		
neral hygiene Isiderations	Always observe good personal hygier before eating, drinking, and/or smok remove contaminants.		

9. Physical and chemical properties

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.
рН	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 e	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	
Flammability class	Combustible IIIB estimated
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

Ingestion	Causes digestive tract burns.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Molten material will produce thermal burns.
Eye contact	Molten material will produce thermal burns.
Symptoms related to the physical, chemical and	Not available.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye	Not available.
irritation	

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 Carcinogenici	ty
ASPHALT (CAS 8052-42-4)		2B Possibly carcinogenic to humans.
US. National Toxicology Pr	ogram (NTP) Report on Caro	cinogens
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY Known To Be Human Carcinogen. NAPHTHENIC (CAS 64741-96-4)		Known To Be Human Carcinogen.
US. OSHA Specifically Regu	ulated Substances (29 CFR 1	910.1001-1050)
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 h	armful.
12. Ecological informatio	n	

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

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	Not available.
user	
IATA	
UN number	Not available.
UN proper shipping name	Forbidden
Transport hazard class(es)	1 of bladeri
Class	Forbidden
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	Not applicable.
Special precautions for	Not available.
user	
Other information	
Passenger and cargo	Forbidden.
aircraft	
Cargo aircraft only	Forbidden.
IMDG	
UN number	UN3257
UN proper shipping name	Elevated temperature liquid, n.o.s. (ASPHALT)
Transport hazard class(es)	Lievated temperature liquid, 11.0.5. (ASFTIALT)
Class	0
Subsidiary risk	9
Packing group	III
Environmental hazards	111
	Na
Marine pollutant EmS	No. Not available.
	Not available.
Special precautions for user	NOL AVAIIADIE.
Transport in bulk according to	Not available.
Annex II of MARPOL 73/78	Not available.
and the IBC Code	
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) ASPHALT (CAS 8052-42-4) Listed. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes **Hazard categories** Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 No **Hazardous chemical** 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) WARNING: This product contains a chemical known to the State of California to cause cancer. **US state regulations US. Massachusetts RTK - Substance List** ASPHALT (CAS 8052-42-4) DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY NAPHTHENIC (CAS 64741-96-4) US. New Jersey Worker and Community Right-to-Know Act Not regulated. **US. Pennsylvania RTK - Hazardous Substances** ASPHALT (CAS 8052-42-4) **US. Rhode Island RTK** Not regulated. **US. California Proposition 65** US - California Proposition 65 - CRT: Listed date/Carcinogenic substance ASPHALT (CAS 8052-42-4) Listed: January 1, 1990 **International Inventories** Country(s) or region On inventory (yes/no)* **Inventory name** 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 European Inventory of Existing Commercial Chemical Substances Europe Yes (EINECS) 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 Yes

(PICCS)

Country(s) or region Inventory name

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	11-24-2015
Version #	02
Further information	HMIS® is a registered trade and service mark of the NPCA.
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	Product and Company Identification: Alternate Trade Names GHS: Classification