SAFETY DATA SHEET



1. Identification

Product identifier 50/50 Blend Asphalt

Other means of identification

Product Code 1674

Recommended use Not available. **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/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** Not classified. **Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

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

Label elements

None. **Hazard symbol**

Signal word Not available. **Hazard statement** Not available.

Prevention Wear protective gloves/eye protection/face protection. Response If exposed or concerned: Get medical advice/attention.

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 Vapors containing hydrogen sulfide may accumulate during storage or transport. HYDROGEN

SULFIDE (H2S) can be harmful or fatal if inhaled.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	nonyms CAS number	
ASPHALT		8052-42-4	100

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.

Material name: 50/50 Blend Asphalt SDS US Most important symptoms/effects, acute and delayed

Potential for severe thermal burns.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog. Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical

Irritating and toxic gases or fumes may be released during a fire.

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

ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use

equipment/instructions

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. 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. Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal.

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. It is recommended that the storage temperature never exceed 350°F.

Value

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value	
HYDROGEN SULFIDE (CAS 7783-06-4)	Ceiling	20 ppm	
US. ACGIH Threshold Limit	Values		
Material	Туре	Value	Form
50/50 Blend Asphalt	TWA	0.5 mg/m3	Inhalable fraction.
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.
HYDROGEN SULFIDE (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Material	Туре	Value	Form
50/50 Blend Asphalt	Ceiling	5 mg/m3	Fume.
Components	Туре	Value	Form
ASPHALT (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
HYDROGEN SULFIDE (CAS 7783-06-4)	Ceiling	15 mg/m3	
		10 ppm	
logical limit values	No biological exposure limits noted for	or the ingredient(s).	

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.

Material name: 50/50 Blend Asphalt

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Individual protection measures, such as personal protective equipment

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.

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

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. pН Not available. Melting point/freezing point Not available.

Initial boiling point and

boiling range

> 700 °F (> 371.11 °C)

Flash point > 401.0 °F (> 205.0 °C) Open Cup

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 Not available.

Vapor density > 5

0.96 - 1.06 **Relative density**

Solubility(ies)

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

(n-octanol/water)

> 700 °F (> 371.11 °C) **Auto-ignition temperature**

Decomposition temperature Not available. **Viscosity** Not available.

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 Hazardous polymerization does not occur.

reactions

Conditions to avoid Do not overheat product.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide and/or products low molecular weight hydrocarbons. Hydrogen sulfide.

Material name: 50/50 Blend Asphalt SDS US 5960 Version #: 01 Issue date: 05-22-2015 3 / 7

11. Toxicological information

Information on likely routes of exposure

Ingestion Causes digestive tract burns.

InhalationMay cause irritation to the respiratory system.Skin contactMolten material will produce thermal burns.Eye contactMolten material will produce thermal burns.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity Not available.

Components Species Test Results

HYDROGEN SULFIDE (CAS 7783-06-4)

Acute

Inhalation

LC50 Monkey 0.7 mg/l, 35 Minutes

Mouse > 0.024 mg/l, 960 Minutes

1.5 mg/l, 18 Minutes 0.38 mg/l, 410 Minutes 0.096 mg/l, 804 Minutes > 0.38 mg/l, 960 Minutes

1.5 mg/l, 14 Minutes

Skin corrosion/irritation

Serious eye damage/eye

Not available.

Rat

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity IARC: occupational exposures to straight-run bitumens and their emissions during road paving are

"possibly carcinogenic to humans" (Group 2B). 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

ASPHALT (CAS 8052-42-4) 2B Possibly carcinogenic to humans.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Not available. **Specific target organ toxicity** Not available.

- single exposure

Not available.

Specific target organ toxicity

- repeated exposure

repeated exposure

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity This product has no known eco-toxicological effects.

Material name: 50/50 Blend Asphalt sps us

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

Components Species Test Results

HYDROGEN SULFIDE (CAS 7783-06-4)

Aquatic

LC50 Bluegill (Lepomis macrochirus) 0.009 mg/l, 96 hours Fish

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

Persistence and degradability Not available. **Bioaccumulative potential** Not available. Mobility in soil Not available. Not available. Other adverse effects

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. **US RCRA Hazardous Waste U List: Reference**

> HYDROGEN SULFIDE (CAS 7783-06-4) U135

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

UN number UN3257

UN proper shipping name Elevated temperature liquid, n.o.s., at or above 100 C and below its flash point (including molten

metals, molten salts, etc.)

Transport hazard class(es)

Class 9 **Subsidiary risk** 9 Label(s) **Packing group** TTT

Special precautions for

user

Not available.

Special provisions IB1, T3, TP3, TP29

Packaging exceptions None Packaging non bulk None Packaging bulk 247

IATA

UN number UN3257

UN proper shipping name Elevated temperature liquid, n.o.s. at or above 100°C and below its flash point (including molten

metals, molten salts, etc.)

Transport hazard class(es)

Class 9 **Subsidiary risk**

Packing group Not applicable.

Environmental hazards No. **ERG Code** 9L

Special precautions for

user

Not available.

Other information

Passenger and cargo Allowed.

aircraft

Allowed.

Cargo aircraft only

IMDG

UN number UN3257

UN proper shipping name ELEVATED TEMPERATURE LIQUID, N.O.S. at or above 100°C and below its flashpoint (including

molten metals, molten salts, etc.)

Transport hazard class(es)

Class 9 Subsidiary risk **Packing group** III **Environmental hazards**

Marine pollutant No. F-A, S-P* **EmS**

user

Transport in bulk according to Not available.

Special precautions for

Annex II of MARPOL 73/78

and the IBC Code

Not available.

DOT; IATA; IMDG



Further information

Shipping Marking: HOT. Transport by air is forbidden when shipped above 212°F (100°C). If the product is shipped at temperatures below 212°F (100°C), it is not regulated for transport by ground, air or vessel.

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. HYDROGEN SULFIDE (CAS 7783-06-4) Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

HYDROGEN SULFIDE (CAS 7783-06-4) 100 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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

Chemical name CAS number **Threshold** Reportable **Threshold Threshold** planning quantity planning planning quantity quantity, lower quantity, upper value value

HYDROGEN SULFIDE 7783-06-4 100 500 lbs

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)

HYDROGEN SULFIDE (CAS 7783-06-4)

Safe Drinking Water Act

Not regulated.

(SDWA)

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

US. Massachusetts RTK - Substance List

ASPHALT (CAS 8052-42-4)

Material name: 50/50 Blend Asphalt

HYDROGEN SULFIDE (CAS 7783-06-4)

US. New Jersey Worker and Community Right-to-Know Act

HYDROGEN SULFIDE (CAS 7783-06-4) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

ASPHALT (CAS 8052-42-4)

HYDROGEN SULFIDE (CAS 7783-06-4)

US. Rhode Island RTK

HYDROGEN SULFIDE (CAS 7783-06-4)

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inventory name

ASPHALT (CAS 8052-42-4) Listed: January 1, 1990

International Inventories Country(s) or region

country(3) 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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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 05-22-2015

Version # 01

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.

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On inventory (yes/no)*