SAFETY DATA SHEET

1. Identification

Product identifier: Crafco Asphalt Primer
Other means of identification: Not available.
Recommended use: Not available.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:
Manufacturer: Crafco, Inc.
Address: 6165 West Detroit St.
Chandler, AZ 85226 USA
Contact Name: Jim Chehovits
Telephone: 602-276-0406
E-mail: jim.chehovits@crafco.com
CHEMTREC: 800-424-9300 (North America)
+ 1-703-527-3887   (International)

2. Hazard(s) identification

Physical hazards: Flammable liquids Category 3
Health hazards: Specific target organ toxicity, single exposure Category 3 narcotic effects
Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements

Signal word: Warning
Hazard statement: Flammable liquid and vapor. May cause drowsiness or dizziness.
Prevention: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist/vapors/spray. Wash thoroughly after handling.
Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media for extinction.

Storage: Store in a well-ventilated place. Keep cool.
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations. See section 13 of this SDS for disposal instructions.

Hazard(s) not otherwise classified (HNOC): None known.
Supplemental information: None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT</td>
<td></td>
<td>8052-42-4</td>
<td>40 - 60</td>
</tr>
<tr>
<td>PETROLEUM NAPHTHA</td>
<td></td>
<td>8008-20-6</td>
<td>40 - 60</td>
</tr>
</tbody>
</table>
4. First-aid measures

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if needed.

**Skin contact**
For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat. For minor skin contact, avoid spreading material on unaffected skin. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

**Eye contact**
Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists.

**Ingestion**
Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed**
Not available.

**Indication of immediate medical attention and special treatment needed**
In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**
In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Get medical attention if symptoms occur. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

**Suitable extinguishing media**
Foam. Carbon dioxide (CO2). Water fog. Dry chemical powder.

**Unsuitable extinguishing media**
Do not use water jet.

**Specific hazards arising from the chemical**
Fire may produce irritating, corrosive and/or toxic gases.

**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**
In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Do not get water inside container. Some of these materials, if spilled, may evaporate leaving a flammable residue.

**Specific methods**
In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

**Methods and materials for containment and cleaning up**
Stop the flow of material, if this is without risk. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not contaminate water. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

7. Handling and storage

**Precautions for safe handling**
Avoid heat, sparks, open flames and other ignition sources. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Do not empty into drains. Hydrogen sulfide, a very highly toxic gas, may be present with this material. Keep face clear of tank and/or tank car openings.

**Conditions for safe storage, including any incompatibilities**
8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT (CAS 8052-42-4)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>PETROLEUM NAPHTHA (CAS 8008-20-6)</td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>Non-aerosol.</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT (CAS 8052-42-4)</td>
<td>Ceiling</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>PETROLEUM NAPHTHA (CAS 8008-20-6)</td>
<td>TWA</td>
<td>100 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation
PETROLEUM NAPHTHA (CAS 8008-20-6)
Can be absorbed through the skin.

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
Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection
Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other
It is a good industrial hygiene practice to minimize skin contact. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Thermal hazards
Not available.

General hygiene considerations
When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance
Viscous liquid

Physical state
Liquid.

Form
Liquid.

Color
Brown - black

Odor
Mild Petroleum Odor

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
Not available.

Initial boiling point and boiling range
257 °F (125 °C)

Flash point
> 57.0 °F (> 13.9 °C) Closed Cup

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
0.7 % estimated

Flammability limit - upper (%)
5 % estimated

Explosive limit - lower (%)
Not available.

Explosive limit - upper (%)
Not available.

Vapor pressure
Not available.

Vapor density
> 1

Relative density
Not available.
Solubility(ies)

- Solubility (water): Not available.
- Partition coefficient (n-octanol/water): Not available.
- Auto-ignition temperature: Not available.
- Decomposition temperature: Not available.

Viscosity

- Viscosity: 50 - 400 cP
- Viscosity temperature: 77 °F (25 °C)

Other information

- Molecular weight: 250 lb/lb-mole estimated
- Specific gravity: 0.83 - 0.92
- VOC (Weight %): 413 g/l

10. Stability and reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable at normal conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents.


11. Toxicological information

Information on likely routes of exposure

- Ingestion: May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
- Inhalation: Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
- Skin contact: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
- Eye contact: May be irritating to eyes.

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

Information on toxicological effects

- Acute toxicity: Not classified.
- Skin corrosion/irritation: May cause defatting of the skin, but is neither an irritant nor a sensitizer.
- Serious eye damage/eye irritation: Not classified. May be irritating to eyes.

Respiratory or skin sensitization

- Respiratory sensitization: Not available.
- Skin sensitization: Not a skin sensitizer.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA.

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

Not listed.

Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: Central nervous system.

Specific target organ toxicity - repeated exposure: Not available.

Aspiration hazard: Not classified.

Chronic effects: Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Persistence and degradability: Not available.
13. Disposal considerations

Disposal instructions
Dispose of contents/container in accordance with local/regional/national/international regulations. If discarded, this product is considered a RCRA ignitable waste, D001.

Hazardous waste code
D001: Waste Flammable material with a flash point <140 F

Waste from residues / unused products
Dispose of in accordance with local regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number: UN1999
UN proper shipping name: Tars, liquid including road oils and cut back bitumens
Transport hazard class(es)

- Class: 3
- Subsidiary risk: -
- Label(s): 3
- Packing group: II
- Special precautions for user: Not available.
- Special provisions: 149, B13, IB2, T3, TP3, TP29
- Packaging exceptions: 150
- Packaging non bulk: 202
- Packaging bulk: 242

IATA

UN number: UN1999
UN proper shipping name: Tars, liquid including road asphalt and oils, bitumen and cut backs
Transport hazard class(es)

- Class: 3
- Subsidiary risk: -
- Packing group: II
- Environmental hazards: No.
- ERG Code: 3L
- Special precautions for user: Not available.
- Other information
  - Passenger and cargo aircraft: Allowed.
  - Cargo aircraft only: Allowed.

IMDG

UN number: UN1999
UN proper shipping name: TARS, LIQUID including road oils, and cutback bitumens
Transport hazard class(es)

- Class: 3
- Subsidiary risk: -
- Packing group: II
- Environmental hazards: No.
- Marine pollutant: No.
- EmS: F-E, S-E
- Special precautions for user: Not available.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.
15. Regulatory information

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA/SARA Hazardous Substances** - Not applicable.

**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.


Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

- **Hazard categories**
  - Immediate Hazard - Yes
  - Delayed Hazard - No
  - Fire Hazard - Yes
  - Pressure Hazard - No
  - Reactivity Hazard - No

- **SARA 302 Extremely hazardous substance**
  - Not listed.

- **SARA 311/312 Hazardous chemical**
  - No

- **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.

- **US. Massachusetts RTK - Substance List**
  - ASPHALT (CAS 8052-42-4)
  - PETROLEUM NAPTHA (CAS 8008-20-6)

- **US. New Jersey Worker and Community Right-to-Know Act**
  - PETROLEUM NAPTHA (CAS 8008-20-6) 10000 LBS

- **US. Pennsylvania RTK - Hazardous Substances**
  - ASPHALT (CAS 8052-42-4)
  - PETROLEUM NAPTHA (CAS 8008-20-6)

- **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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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                 12-11-2014
Revision date              09-09-2015
Version #                  03

References
ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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