# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Coal tar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Synonym</td>
<td>Estar; Lavatar; Zetar; Tar, coal; Pixalbol; Coking Tar; Coke-oven Tar; Coal Tars; Coal Tar Pitch volatiles; Coal Tar Extract</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Coal Tar</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>Not available.</td>
</tr>
<tr>
<td>Catalog Number(s)</td>
<td>C1290</td>
</tr>
<tr>
<td>CAS#</td>
<td>8007-45-2</td>
</tr>
<tr>
<td>RTECS</td>
<td>GF8600000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: Coal tar</td>
</tr>
<tr>
<td>CI#</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**IN CASE OF EMERGENCY**
CHEMTREC (24hr) 800-424-9300

CALL (310) 516-8000

## Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Coal tar</td>
<td>8007-45-2</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicological Data on Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal tar: DERMAL (LD50):</td>
</tr>
<tr>
<td>Acute: &gt;7950 mg/kg [Rabbit].</td>
</tr>
</tbody>
</table>

## Section 3. Hazards Identification

**Potential Acute Health Effects**: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects**:

**CARCINOGENIC EFFECTS**: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC, 1 (Clear evidence. Known Human Carcinogen) by NTP.

**MUTAGENIC EFFECTS**: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

**TERATOGENIC EFFECTS**: Not available.

**DEVELOPMENTAL TOXICITY**: Not available.

The substance may be toxic to lungs, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

---

Continued on Next Page
### Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Contact</strong></td>
<td>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
<td>Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.</td>
</tr>
<tr>
<td><strong>Serious Skin Contact</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</td>
</tr>
<tr>
<td><strong>Serious Inhalation</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
<tr>
<td><strong>Serious Ingestion</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 5. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flammability of the Product</strong></td>
<td>May be combustible at high temperature.</td>
</tr>
<tr>
<td><strong>Auto-Ignition Temperature</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flash Points</strong></td>
<td>CLOSED CUP: 96°C (204.8°F).</td>
</tr>
<tr>
<td><strong>Flammable Limits</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Products of Combustion</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Fire Hazards in Presence of Various Substances</strong></td>
<td>Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.</td>
</tr>
<tr>
<td><strong>Explosion Hazards in Presence of Various Substances</strong></td>
<td>Risks of explosion of the product in presence of mechanical impact: Not available.</td>
</tr>
<tr>
<td><strong>Fire Fighting Media and Instructions</strong></td>
<td>SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td><strong>Special Remarks on Fire Hazards</strong></td>
<td>On ignition it burns with reddish, luminous, and very sooty flame.</td>
</tr>
<tr>
<td><strong>Special Remarks on Explosion Hazards</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Spill Size</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
<td>Absorb with an inert material and put the spilled material in an appropriate waste disposal.</td>
</tr>
<tr>
<td>Large</td>
<td>Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.</td>
</tr>
</tbody>
</table>

### Section 7. Handling and Storage

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions</td>
<td>Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents.</td>
</tr>
<tr>
<td>Storage</td>
<td>Keep container tightly closed. Keep container in a cool, well-ventilated area.</td>
</tr>
</tbody>
</table>
### Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
Provide local or general exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection**
Splash goggles. Synthetic apron. Vapor respirator. Respiratory protection is needed if ventilation/containment measures do not reliably protect against inhalation overexposure. Be sure to use an approved/certified respirator or equivalent. Gloves (impervious).

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**
- TWA: 0.2 (mg/m³) from OSHA (PEL) [United States]
- TWA: 0.2 (mg/m³) from ACGIH (TLV) [United States]
- TWA: 0.1 (mg/m³) from NIOSH [United States]
- TWA: 0.2 STEL: 0.6 (mg/m³) [Canada]

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Odor</th>
<th>Molecular Weight</th>
<th>Taste</th>
<th>pH (1% soln/water)</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid. (Viscous liquid.)</td>
<td>Tar-like; naphthalene-like</td>
<td>Not available.</td>
<td>Sharp burning.</td>
<td>Not applicable.</td>
<td>Black</td>
</tr>
</tbody>
</table>

**Boiling Point**
- 66°C (150.8°F)

**Melting Point**
- Not available.

**Critical Temperature**
- Not available.

**Specific Gravity**
- 1.2 (Water = 1)

**Vapor Pressure**
- <0.1 kPa (@ 20°C)

**Vapor Density**
- >1 (Air = 1)

**Volatility**
- Not available.

**Odor Threshold**
- Not available.

**Water/Oil Dist. Coeff.**
- Not available.

**Ionicity (in Water)**
- Not available.

**Dispersion Properties**
- See solubility in water, methanol, diethyl ether, acetone.

**Solubility**
- Partially soluble in methanol, diethyl ether, acetone.
- Insoluble in cold water, hot water.
- Soluble in benzene, nitrobenzene.
- Partly dissolves in alcohol, chloroform, carbon disulfide, petroleum ether, sodium hydroxide solution, hexane

### Section 10. Stability and Reactivity Data

**Stability**
The product is stable.

**Instability Temperature**
- Not available.

**Conditions of Instability**
- Excess heat, incompatible materials

**Incompatibility with various substances**
- Reactive with oxidizing agents.

**Corrosivity**
- Not considered to be corrosive for metals and glass.

**Special Remarks on Reactivity**
- It reacts violently with strong oxidizers such as liquid chlorine, sodium or potassium hypochlorite, nitric acid and peroxides.

**Special Remarks on Corrosivity**
- Not available.

*Continued on Next Page*
## Section 11. Toxicological Information

### Routes of Entry
- Inhalation. Ingestion.

### Toxicity to Animals
- Acute dermal toxicity (LD50): >7950 mg/kg [Rabbit].

### Chronic Effects on Humans

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARCINOGENIC EFFECTS</td>
<td>Confirmed for human by ACGIH, Proven for human by IARC, Clear evidence for Human Carcinogen by NTP.</td>
</tr>
<tr>
<td>MUTAGENIC EFFECTS</td>
<td>Mutagenic for mammalian somatic cells, bacteria, and yeast.</td>
</tr>
</tbody>
</table>

May cause damage to the following organs: lungs, skin, eyes

Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

### Other Toxic Effects on Humans

### Special Remarks on Toxicity to Animals
- Not available.

### Special Remarks on Chronic Effects on Humans
- May affect genetic material (mutagenic).
- Can cause cancer.

### Special Remarks on Other Toxic Effects on Humans

#### Acute Potential Health Effects:
- Skin: It may cause skin irritation. Mild skin irritant. Irritation, itching, rash, and burning sensation can be aggravated by sunlight. It is a phototoxic substance that, in presence of ultraviolet light (sunlight) can cause a skin reaction similar to an exaggerated sunburn, frequently causing blisters.
- Eyes: It may cause eye irritation.
- Inhalation: Inhalation of mist or vapor can irritate the respiratory tract (nose, throat, and lung irritation). Symptoms may include coughing, sneezing, wheezing and/or shortness of breath, hoarseness, and nosebleeds. Exposure to coal tar pitch can also cause headache, fatigue, dizziness, irritability, and mood changes, and poor appetite. Higher levels may cause fainting and even coma.
- Ingestion: Ingestion can cause severe gastrointestinal tract irritation with nausea, vomiting. It may also affect behavior/central nervous system and cause central nervous system depression. Aspiration can cause lung inflammation and damage.

#### Chronic Potential Health Effects:
- Skin: Prolonged or repeated exposure to coal tar may cause irritation and dermatitis (including acne), melanosis, or photosensitization dermatitis. Long-term exposure to coal tar can cause thickening of skin, changes in skin pigmentation (patchy or generalized hyperpigmentation), growths on skin (e.g. taror pitch warts), folliculitis, or skin cancer.
- Eyes: Repeated or prolonged exposure may cause eye damage. Prolonged or repeated exposure may cause brown staining in the eyes.
- Inhalation: Prolonged or repeated inhalation may contribute to gallbladder disease, pneumonitis, and pulmonary vessel thrombosis. It may also affect the blood (decreased red blood cell counts, hemoglobin concentration, white blood cells and increases reticulocytes). Inhalation of coal tar aerosols has caused liver cancer in rats and liver and lung changes in rats and hamsters. Studies using multiple species exposed to coal tar aerosols reported tumors of the skin, lung, liver, kidney and spleen.

### Section 12. Ecological Information

### Ecotoxicity
- Not available.

### BOD5 and COD
- Not available.

### Products of Biodegradation
- Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

### Toxicity of the Products of Biodegradation
- Not available.

### Special Remarks on the Products of Biodegradation
- Not available.
# Section 13. Disposal Considerations

## Waste Disposal
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

# Section 14. Transport Information

## DOT Classification
- Not a DOT controlled material (United States).

## Identification
- Not applicable.

## Special Provisions for Transport
- Not applicable.

## DOT (Pictograms)
![No DOT Pictogram]

# Section 15. Other Regulatory Information and Pictograms

## Federal and State Regulations
- California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Coal tar
- California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Coal tar
- New York release reporting list: Coal tar
- Pennsylvania RTK: Coal tar
- Massachusetts RTK: Coal tar
- New Jersey: Coal tar
- California Director’s List of Hazardous Substances: Coal tar
- TSCA 8(b) inventory: Coal tar

## California Proposition 65 Warnings
- California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Coal tar (listed as coke oven emissions)
- California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

## Other Regulations
- EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 232-361-7).
- Canada: Listed on Canadian Domestic Substance List (DSL).
- China: Listed on National Inventory.
- Japan: Listed on National Inventory (ENCS).
- Korea: Listed on National Inventory (KECI).
- Philippines: Listed on National Inventory (PICCS).
- Australia: Listed on AICS.

## Other Classifications
- **WHMIS (Canada)**
  - CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
- **DSCL (EEC)**
  - R45- May cause cancer.
- **S45-** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- **S53-** Avoid exposure - obtain special instructions before use.
- **National Fire Protection Association (U.S.A.)**
  - Health
    - Flammability
    - Reactivity
    - Specific hazard

---

**Continued on Next Page**
## Protective Equipment

- Gloves (impervious).
- Synthetic apron.
- Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Safety glasses.

## Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>C4430</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Validated by Sonia Owen on 1/15/2013.  
Verified by Sonia Owen.  
Printed 1/15/2013.  

CALL (310) 516-8000

**Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.