

**Safety Data Sheet**

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200  
 Date of Issue: 05/18/2026 Version: 4.0

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Substance

**Product Name:** Coal Tar Pitch Liquid

**Chemical Name:** Pitch, coal tar-petroleum

**CAS-No.:** 68187-57-5

**Synonyms:** Binder pitch, binder pitch blend, impregnation pitch, impregnation pitch blend, 23 soft pitch, 100<sup>o</sup> pitch, electrode binder

### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Waterproofing; roofing; specialty carbon products

### 1.3. Name, Address, and Telephone of the Responsible Party

**Company**

Lone Star Specialty Products, LLC

6412 U.S. Highway 259 South

Lone Star, TX 75668 USA

**Phone #:** 903-656-2536

**Fax #:** 903-656-2151

[www.lonestarspecialties.net](http://www.lonestarspecialties.net)

### 1.4. Emergency Telephone Number

**Emergency Number:** 800-424-9300 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Skin Irrit. 2	H315
Skin Sens. 1B	H317
Muta. 1B	H340
Carc. 1B	H350
Repr. 2	H361
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

**Full text of hazard classes and H-statements:** see section 16.

### 2.2. Label Elements GHS-US Labeling



**Hazard Pictograms (GHS-US):**

GHS07

GHS08

GHS09

**Signal Word (GHS-US):**

Danger

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### Hazard Statements (GHS-US):

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H340 - May cause genetic defects.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary Statements (GHS-US):

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P261 - Avoid breathing vapors, mist, or spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P321 - Specific treatment (see section 4 on this SDS).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

**Name:** Coal Tar Pitch Liquid

**CAS-No.:** 68187-57-5

Name	Synonyms	Product Identifier	%	GHS US classification
Pitch, coal-tar petroleum	Coal tar pitch / Pitch, coal tar-petroleum / Binder pitch / Binder pitch blend / Impregnation pitch / Impregnation pitch blend / Coal tar-petroleum pitch	(CAS-No.) 68187-57-5	100	Skin Irrit. 2, H315 Skin Sens. 1, H317 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Coal tar pitch is a UVCB substance and may contain the following components in appreciable amounts:

Name	Synonyms	Product Identifier	%	GHS US classification
Polycyclic aromatic hydrocarbons	Aromatic hydrocarbons, polycyclic / PAHs / PAH / HAP / Hydrocarbons, aromatic, polycyclic / Poly(2+)cyclic aromatics hydrocarbons / Polynuclear aromatic hydrocarbons / Aromatic polycyclic hydrocarbons / Polycyclic-aromatic hydrocarbons	(CAS-No.) 130498-29-2	4 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H335
Phenanthrene	Phenanthren (German) / Phenanthracene / Phenanthrin / Ravatite / Phenantrin / Phenanthrene, pure / HSDB 2166 / NSC 26256	(CAS-No.) 85-01-8	1.11	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust
Anthracene	Anthracen (German) / Anthracin, Green Oil / HSDB 702 / NSC 7958 / Paraphthalene / Tera Olive N2G	(CAS-No.) 120-12-7	0.32	Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

Fluoranthene	Benzene, 1,2-(1,8-naphthalenediyl) / Benzene, 1,2-(1,8-naphthylene) / Benzo(jk)fluorene / Fuoranthene / HSDB 5486 / IDRYL / NSC 6803 / 1,2-(1,8-Naphthylene)benzene / 1,2-Benzacenaphthene	(CAS-No.) 206-44-0	2.34	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
Pyrene	Benzo(def)phenanthrene / Beta-pyrene / HSDB 4023 / NSC 17534 / Pyren (German)	(CAS-No.) 129-00-0	2.36	Acute Tox. 2 (Inhalation), H330 Carc. 1B, H350 Aquatic Chronic 1, H410
Chrysene	Benz(a)phenanthrene / Benzo(a)phenanthrene / HSDB 2810 / NSC 6175 / 1,2,5,6-Dibenzonaphthalene / 1,2-Benzophenanthrene / 1,2-Benzphenanthrene	(CAS-No.) 218-01-9	1.75	Muta. 2, H341 Carc. 2, H351 Aquatic Chronic 1, H410
Benz(a)anthracene	Benzanthrene / Tetraphene	(CAS-No.) 56-55-3	1.92	Muta. 2, H341 Carc. 2, H351 Aquatic Chronic 1, H410
Benzo(k)fluoranthene	11,12-Benzofluoranthene / 2,3,1',8'-Binaphthylene / 8,9-Benzfluoranthene / Dibenzo[b,jk]fluorene	(CAS-No.) 207-08-9	2.41	Carc. 1B, H350 Aquatic Chronic 1, H410
Benzo(b)fluoranthene	3,4-Benz(e)acephenanthrylene / 2,3-Benzofluoranthene / Benzo(e)fluoranthene	(CAS-No.) 205-99-2	1.80	Carc. 1B, H350 Aquatic Chronic 1, H410
Benzo(e)pyrene	1,2-Benzpyrene / 4,5-Benzopyrene / 4,5-Benzpyrene / Benzo(l)pyrene / 9,10-Benzpyrene / 1,2-Benzopyrene / Benz(e)pyrene	(CAS-No.) 192-97-2	1.48	Carc. 1B, H350 Aquatic Chronic 1, H410

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

Benzo(a)pyrene	3,4-Benzopyrene / benzo(pqr)teraphene / 3,4-Benzopyrene / benzo(def)chrysene / Benzpyrene / 6,7-Benzopyrene	(CAS-No.) 50-32-8	2.73	Repr. 1B, H360 STOT-RE 2, H373 Skin Sens. 1B, H317 Muta. 1B, H340 Carc. 1B, H350 Aquatic Chronic 1, H410
Perylene	Peri-Dinaphthanlene / Perilene / Dibenz(de,kl)anthracene / alph-Perylene / Perylen	(CAS-No.) 198-55-0	0.60	N/A
Indeno(1,2,3-cd)pyrene	1,10-(1,2-Phenylene)pyrene / 1,10-(o-Phenylene)pyrene	(CAS-No.) 193-39-5	1.33	Carc. 2, H351 Aquatic Chronic 1, H410
Dibenz(a,h)anthracene	Naphtho[1',2':2,3]phenanthrene	(CAS-No.) 53-70-3	0.60	STOT-RE 2, H373 Muta. 2, H341 Carc. 1B, H350 Aquatic Chronic 1, H410
Benzo(ghi)perylene	HSDB 6177 / NSC 89275 / 1,12-Benzoperylene / 1,12-Benzperylene	(CAS-No.) 191-24-2	1.28	Aquatic Chronic 1, H410
Naphthalene	Naphthalene, molten / Naphthalene, crude / Naphthalenes / Moth balls	(CAS-No.) 91-20-3	<= 0.4	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust

Full text of H-phrases: see section 16.

### 3.2. Mixture

Not applicable

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention. Obtain medical attention if irritation/rash develops or persists.

**First-aid Measures After Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** May cause cancer. Suspected of damaging fertility or the unborn child. Skin sensitization. Causes skin irritation. May cause genetic defects. Contact with hot liquid may cause thermal burns.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility or the unborn child. May cause genetic defects.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures. May release flammable vapors.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulfur dioxide. Polycyclic-aromatic hydrocarbons (PAH).

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist, or spray.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Tank headspaces should always be regarded as potentially flammable and care should be taken to avoid static electrical discharge and all ignition sources during filling, discharging and sampling from storage tanks.

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, spray. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. **Incompatible Materials:** Strong oxidizers.

### 7.3. Specific End Use(s)

Waterproofing; roofing; specialty carbon products

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Phenanthrene (85-01-8)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Coal tar pitch volatiles)
Anthracene (120-12-7)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Coal tar pitch volatiles)
Naphthalene (91-20-3)		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route. Confirmed Animal Carcinogen with Unknown Relevance to Humans

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

<b>USA ACGIH</b>	Biological Exposure Indices (BEI)	Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific)
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (ppm)	10 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (ppm)	15 ppm
<b>USA IDLH</b>	US IDLH (ppm)	250 ppm
<b>USA OSHA</b>	OSHA PEL (TWA) (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) (ppm)	10 ppm
<b>Polycyclic aromatic hydrocarbons (130498-29-2)</b>		
<b>USA ACGIH</b>	Biological Exposure Indices (BEI)	2.5 µg/l Parameter: 1-Hydroxypyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (background) Parameter: 3-Hydroxybenzo(a)pyrene with hydrolysis - Medium: urine - Sampling time: end of shift at end of workweek (nonquantitative)
01/09/2023		
		urine - Sampling time: end of shift at end of workweek (nonquantitative)

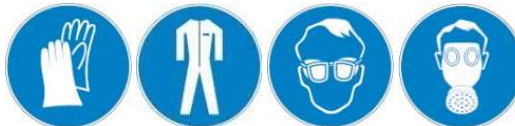
### 8.2. Exposure Controls

#### Appropriate Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released.

#### Personal Protective Equipment

Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



#### Materials for Protective Clothing:

Chemically resistant materials and fabrics.

#### Hand Protection:

Wear protective gloves.

#### Eye and Face Protection:

Chemical safety goggles.

#### Skin and Body Protection:

Wear suitable protective clothing.

#### Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

#### Thermal Hazard Protection:

When working with hot material, use suitable thermally protective clothing.

#### Other Information:

When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	black solid, becomes black liquid
<b>Odor:</b>	slight aromatic odor, strong tarry odor upon melting
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Evaporation Rate:</b>	No data available

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

<b>Melting Point:</b>	No data available
<b>Freezing Point:</b>	No data available
<b>Boiling Point:</b>	> 250 °C (482 °F) initial
<b>Flash Point:</b>	> 500 °F (260 °C) TCC
<b>Auto-ignition Temperature:</b>	> 750 °F (398.89 °C)
<b>Decomposition Temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Vapor Pressure:</b>	< 1 mm Hg @ 20 °C (68 °F)
<b>Relative Vapor Density at 20°C:</b>	> 1 (air = 1)
<b>Relative Density:</b>	No data available
<b>Specific Gravity:</b>	1.3 +/- 0.04 @ 15.5 °C (59.9 °F)
<b>Density:</b>	> 10 lb/gal
<b>Solubility:</b>	Water: insoluble to slightly soluble
<b>Partition Coefficient: N-Octanol/Water:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Molecular Formula:</b>	a complex hydrocarbon mixture which includes polynuclear aromatic hydrocarbons (PAH's)
<b>Softening Point:</b>	60 °C to 140 °C (140 - 284 °F), depending on the specific product
<b>Particle Characteristics:</b>	Not applicable – product is a liquid when molten/heated for processing; solid at ambient temperature.

**9.2. Other Information:** No additional information available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials:** Strong oxidizers.
- 10.6. Hazardous Decomposition Products:** None expected under normal conditions of use.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

<b>Phenanthrene (85-01-8)</b>	
<b>ATE (Oral)</b>	500.00 mg/kg body weight
<b>Anthracene (120-12-7)</b>	
<b>LD50 Oral Rat</b>	> 16 g/kg

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

LD50 Dermal Rat	> 1320 mg/kg
ATE (Dermal)	1,100.00 mg/kg body weight
<b>Naphthalene (91-20-3)</b>	
LD50 Oral Rat	533 - 710 mg/kg
LC50 Inhalation Rat	> 340 mg/m <sup>3</sup> (Exposure time: 1 h)

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** May cause genetic defects.

**Carcinogenicity:** May cause cancer.

<b>Phenanthrene (85-01-8)</b>	
IARC group	3
<b>Anthracene (120-12-7)</b>	
IARC group	3
<b>Naphthalene (91-20-3)</b>	
IARC group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction. Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** May cause cancer. Suspected of damaging fertility or the unborn child. May cause genetic defects.

**Interactive Effects:** Coal Tar Pitch Liquid is a complex UVCB substance containing multiple PAH components that exhibit additive and synergistic toxicity. The following interactive effects are relevant:

**PAH Carcinogenic Synergy:** Benzo(a)pyrene (2.73%), benzo(k)fluoranthene (2.41%), benzo(b)fluoranthene (1.80%), benzo(e)pyrene (1.48%), chrysene (1.75%), and benz(a)anthracene (1.92%) share metabolic activation pathways (CYP1A1/1B1-mediated oxidation, DNA adduct formation). Combined PAH exposure produces greater carcinogenic burden than any single component alone. IARC

classifies coal tar pitch volatiles as Group 1 (carcinogenic to humans).

**Phototoxicity:** PAH components are phototoxic. Skin contact followed by UV or sunlight exposure causes photoactivated burns, blistering, and chronic melanosis. Workers must thoroughly decontaminate and avoid sun or UV exposure for 24-48 hours following skin contact with this material.

**Thermal Burns and Chemical Absorption:** Contact with molten pitch causes severe thermal burns. Concurrent dermal absorption of PAH carcinogens through burn-damaged skin increases systemic carcinogen dose significantly. Emergency cooling with water is required. Do not attempt to remove solidified pitch from skin — seek immediate medical attention.

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

**Sensitization Progression:** Skin sensitization (H317) from benzo(a)pyrene and PAH components is worsened by concurrent skin irritation (H315). Repeated exposure leads to progressive allergic contact dermatitis.

**Alternative Information Sources:** Coal Tar Pitch Liquid (CAS 68187-57-5) is a UVCB substance for which complete mixture-specific toxicological testing data are unavailable. Classifications are based on:

- **IARC Monograph Vol. 92 (2010):** Coal Tars and Coal-Tar Pitches —sufficient evidence of human carcinogenicity for occupational exposures.
- **IARC Monograph Vol. 35 (1985) and Vol. 100F (2012):** Coal tar pitch volatiles classified IARC Group 1 (carcinogenic to humans).
- **NTP 15th Report on Carcinogens:** Coal Tars and Coal-Tar Pitches listed as Known Human Carcinogens.
- **ATSDR Toxicological Profile for Polycyclic Aromatic Hydrocarbons (PAHs).**
- **Component-based classification:** hazards derived from identified PAH components (benzo(a)pyrene, benzo(k)fluoranthene, pyrene, etc.) using GHS mixture classification additive and concentration threshold rules.
- **Benzo(a)pyrene (CAS 50-32-8, 2.73%):** Carc. 1B, Repr. 1B, Muta. 1B, STOT RE 2 — primary driver of carcinogenicity and reproductive toxicity classifications for the mixture.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Very toxic to aquatic life with long lasting effects.

Phenanthrene (85-01-8)	
EC50 Daphnia 1	0.35 mg/l
NOEC Chronic Fish	0.004 mg/l

Anthracene (120-12-7)	
LC50 Fish 1	0 - 0.00318 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	0.081 - 0.112 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	0.00278 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

Naphthalene (91-20-3)	
LC50 Fish 1	5.74 - 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

### 12.2. Persistence and Degradability

Coal Tar Pitch Liquid (68187-57-5)	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

Coal Tar Pitch Liquid (68187-57-5)	
Bioaccumulative Potential	Not established.
Phenanthrene (85-01-8)	

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

Log Pow	4.5
Anthracene (120-12-7)	
BCF Fish 1	903 - 2820
Log Pow	4.54
Naphthalene (91-20-3)	
BCF Fish 1	30 - 430
Log Pow	3.6

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name:** ELEVATED TEMPERATURE LIQUID, N.O.S. (BULK) UN3257, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DRUMS/PAILS) UN3082

**Hazard Class:** 9

**Identification Number:** UN 3257

**Packing Group:** III

**Label Codes:** 9

**Marine Pollutant:** Yes

**ERG Number:** 128

**Marine Pollutant:** Marine pollutant



### 14.2 In Accordance with IMDG

**Proper Shipping Name:** ELEVATED TEMPERATURE LIQUID, N.O.S. (BULK) UN3257, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (DRUMS/PAILS) UN3082

**Hazard Class:** 9

**Identification Number:** UN 3257

**Packing Group:** III

**Label Codes:** 9

**EmS-No. (Fire):** F-A

**EmS-No. (Spillage):** S-F

**Marine Pollutant:** Yes



# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### 14.3. In Accordance with IATA

Status: FORBIDDEN for air transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

Coal Tar Pitch Liquid (68187-57-5)	
<b>SARA Section 311/312 Hazard Classes</b>	Health hazard - Carcinogenicity Health hazard - Reproductive toxicity Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation Health hazard - Germ cell mutagenicity
Pitch, coal tar-petroleum (68187-57-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Phenanthrene (85-01-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
Anthracene (120-12-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	5000 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
Naphthalene (91-20-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %
Fluoranthene (206-44-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
Pyrene (129-00-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
<b>CERCLA RQ</b>	5000 lb

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

<b>Chrysene (218-01-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>Benz(a)anthracene (56-55-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	10
<b>Benzo(k)fluoranthene (207-08-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	5000 lb
<b>Benzo(b)fluoranthene (205-99-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	1 lb
<b>Benzo(a)pyrene (50-32-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	1 lb
<b>Perylene (198-55-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
<b>Indeno(1,2,3-cd) pyrene (193-39-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	100 lb
<b>Dibenz(a,h)anthracene (53-70-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory. Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	1 lb
<b>Benzo(ghi)perylene (191-24-2)</b>	
Subject to reporting requirements of United States SARA Section 313.	
<b>CERCLA RQ</b>	5000 lb

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### 15.2. US State Regulations

<b>Phenanthrene (85-01-8)</b>
U.S. - Massachusetts - Right to Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Anthracene (120-12-7)</b>
U.S. - Massachusetts - Right to Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Naphthalene (91-20-3)</b>
U.S. - Massachusetts - Right to Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List
<b>Polycyclic aromatic hydrocarbons (130498-29-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

#### California Proposition 65



**WARNING:** This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Naphthalene (91-20-3)	X			

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision:** 05/18/2026

**Previous Revision Date:** 05/13/2024 (Version 3.0)

**Version:** 4.0

**Revision Summary:** Updated to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200 as amended May 20, 2024 (GHS Revision 7). Updated header compliance citation from Federal Register Vol. 77, No. 58 (March 26, 2012) to Federal Register Vol. 89, No. 98 (May 20, 2024). Updated Skin Sens. 1 to Skin Sens. 1B throughout. Updated Repr. 1 to Repr. 1B for benzo(a)pyrene. Added particle characteristics to Section 9. Added interactive effects and alternative information paragraphs to Section 11. Corrected document structure to ensure Sections 9 and 10 appear as standalone section headers.

**Other Information:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200, as amended by final rule published May 20, 2024 (effective July 19, 2024), aligning with the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Revision 7, with selected elements from Revision 8.

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Sol. 2	Flammable solids Category 2
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Repr. 2	Reproductive toxicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)

# Coal Tar Pitch Liquid

## Safety Data Sheet

According to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations and the OSHA Hazard Communication Standard 29 CFR 1910.1200

### NFPA 704 Diamond Rating System:

- NFPA Health Hazard:** **3** – Materials that, under emergency conditions, can cause serious or permanent injury. Justification: IARC Group 1 confirmed human carcinogen (Carc. 1B, H350). Contains polycyclic aromatic hydrocarbons (PAHs) including benzo(a)pyrene, with germ cell mutagenicity (H340), reproductive toxicity (H361), skin sensitization (H317), and severe phototoxicity with UV exposure.
- NFPA Fire Hazard:** **1** – Materials that must be preheated before ignition can occur. Justification: Flash point >500°F (>260°C) TCC. Classified as combustible liquid (Flam. Liq. 4 / H227). Requires considerable preheating to burn under normal ambient conditions.
- NFPA Reactivity Hazard:** **0** – Materials that in themselves are normally stable, even under fire conditions. Justification: Stable under normal conditions and in fire. No hazardous polymerization. Reaction with strong oxidizers is not unusual for organic materials.
- NFPA Special Hazard:** None

### NFPA 704 Diamond:

