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Revision Number 1

1. Identification

Product identifier

Product Name Coal Tar Pitch

Other means of identification

Product Code(s) Coal Tar Pitch

UN/ID no UN3257

Synonyms Roofing Pitch

Recommended use of the chemical and restrictions on use

Recommended use Built-up roofing systems

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Arbor Preservative Systems, LLC
1471 Channel Avenue
Memphis, TN 38106
Tel: 901-942-3326

E-mail jeffw@arborpreservative.com

Emergency telephone number

Emergency telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Danger

Hazard statements

May cause an allergic skin reaction.
 May cause genetic defects.
 May cause cancer.
 May damage fertility or the unborn child.



Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF ON SKIN: Wash with plenty of water and soap
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed. May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms Roofing Pitch

Chemical name	CAS No	Weight-%	Trade secret
Coal tar pitches	65996-93-2	100	*
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	*
Chrysene	218-01-9	1.02	*
Benzo(b)fluoranthene	205-99-2	0.84	*
Benzo[a]anthracene	56-55-3	0.79	*
Benzo(e)pyrene	192-97-2	0.69	*
Benzo[a]pyrene	50-32-8	0.65	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms	Itching. Rashes. Hives.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Coal tar pitches 65996-93-2	TWA: 0.2 mg/m ³ benzene-soluble aerosol	TWA: 0.2 mg/m ³ benzene soluble fraction (vacated) TWA: 0.2 mg/m ³ benzene soluble fraction	IDLH: 80 mg/m ³ TWA: 0.1 mg/m ³ Cyclohexane-extractable fraction
Chrysene 218-01-9	Exposure by all routes should be carefully controlled to levels as low as possible	TWA: 0.2 mg/m ³	-
Benzo(b)fluoranthene 205-99-2	Exposure by all routes should be carefully controlled to levels as low as possible	-	-
Benz[a]anthracene 56-55-3	Exposure by all routes should be carefully controlled to levels as low as possible	-	-
Benzo[a]pyrene 50-32-8	Exposure by all routes should be carefully controlled to levels as low as possible	TWA: 0.2 mg/m ³	-

Biological occupational exposure limits

Chemical name	ACGIH
Coal tar pitches 65996-93-2	2.5 µg/L - urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek - urine (3-Hydroxybenzo(a)pyrene with hydrolysis) - end of shift at end of workweek
Chrysene 218-01-9	2.5 µg/L - urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek - urine (3-Hydroxybenzo(a)pyrene with hydrolysis) - end of shift at end of workweek
Benzo(b)fluoranthene 205-99-2	2.5 µg/L - urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek - urine (3-Hydroxybenzo(a)pyrene with hydrolysis) - end of shift at end of workweek
Benz[a]anthracene 56-55-3	- urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek

Benzo[a]pyrene 50-32-8	2.5 µg/L - urine (1-Hydroxypyrene with hydrolysis) - end of shift at end of workweek - urine (3-Hydroxybenzo(a)pyrene with hydrolysis) - end of shift at end of workweek
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Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Appearance	Black Solid
Physical state	Solid
Color	black
Odor	Aromatic
Odor threshold	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	>190 °C / >374 °F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	Negligible	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

Explosive properties	No information available.
Oxidizing properties	No information available.
Softening point	No information available

Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available

10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks. dust formation. Exposure to water. Extremes of temperature and direct sunlight.
Incompatible materials	Oxidizing agent.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NOx). Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Product Information	.
Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Itching. Rashes. Hives.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral)	3,300.00 mg/kg
ATEmix (dermal)	5,000.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Coal tar pitches 65996-93-2	= 3300 mg/kg (Rat)	> 5000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
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Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. May cause genetic defects.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Coal tar pitches 65996-93-2	A1	Group 1	Known	X
Indeno(1,2,3-cd)pyrene 193-39-5	-	Group 2B	Reasonably Anticipated	X
Chrysene 218-01-9	A3	Group 2B	-	X
Benzo(b)fluoranthene 205-99-2	A2	Group 2B	Reasonably Anticipated	X
Benz[a]anthracene 56-55-3	A2	Group 2B	Reasonably Anticipated	X
Benzo(e)pyrene 192-97-2	-	Group 3	-	-
Benzo[a]pyrene 50-32-8	A2	Group 1	Reasonably Anticipated	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Kidney. Respiratory system. Skin. Bladder. Lungs.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benz[a]anthracene 56-55-3	-	-	-	EC50: =0.0042mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Coal tar pitches 65996-93-2	6.04
Indeno(1,2,3-cd)pyrene 193-39-5	6.584
Chrysene 218-01-9	5.61 - 5.91
Benzo(b)fluoranthene 205-99-2	6.57
Benz[a]anthracene 56-55-3	5.61
Benzo[a]pyrene 50-32-8	6.06

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

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

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number U018 U022 U050 U120 U137

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Indeno(1,2,3-cd)pyrene 193-39-5	U137	Included in waste streams: F032, F034, F039, K001, K035, K141, K142, K147, K148	-	U137
Chrysene 218-01-9	U050	Included in waste streams: F037, F038, F039, K001, K035	-	U050
Benzo(b)fluoranthene 205-99-2	-	Included in waste streams: F039, K001, K035, K141, K142, K143, K144, K147, K148, K170	-	-
Benz[a]anthracene 56-55-3	U018	Included in waste streams: F032, F034, F039, K001, K035, K141, K142, K143, K144, K145, K147, K148, K170	-	U018
Benzo[a]pyrene 50-32-8	U022	Included in waste streams: F032, F034, F037, F038, F039, K001, K035, K141, K142, K144, K145, K147, K148, K170	-	U022

14. Transport information**DOT**

UN/ID no	UN3257
Proper shipping name	ELEVATED TEMPERATURE LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
Reportable Quantity (RQ)	(Indeno(1,2,3-cd)pyrene: RQ (kg)= 45.40, Chrysene: RQ (kg)= 45.40, Benzo(b)fluoranthene: RQ (kg)= 0.454, Fluoranthene: RQ (kg)= 45.40, Benz[a]anthracene: RQ (kg)= 4.54, Benzo[a]pyrene: RQ (kg)= 0.454) Indeno(1,2,3-cd)pyrene: RQ (lb)= 100.00, Chrysene: RQ (lb)= 100.00, Benzo(b)fluoranthene: RQ (lb)= 1, Fluoranthene: RQ (lb)= 100.00, Benz[a]anthracene: RQ (lb)= 10, Benzo[a]pyrene: RQ (lb)= 1
DOT reportable quantity kg (calculated)	Indeno(1,2,3-cd)pyrene: RQ (kg)= 4127.00, Chrysene: RQ (kg)= 4451.00, Benzo(b)fluoranthene: RQ (kg)= 54.00, Fluoranthene: RQ (kg)= 5537.00, Benz[a]anthracene: RQ (kg)= 575.00, Benzo[a]pyrene: RQ (kg)= 70.00
DOT Reportable Quantity lbs. (calculated)	Indeno(1,2,3-cd)pyrene: RQ (lb)= 9091.00, Chrysene: RQ (lb)= 9804.00, Benzo(b)fluoranthene: RQ (lb)= 119.00, Fluoranthene: RQ (lb)= 12195.00, Benz[a]anthracene: RQ (lb)= 1266.00, Benzo[a]pyrene: RQ (lb)= 154.00
Special Provisions	IB1, T3, TP3, TP29
DOT Marine Pollutant	I
Marine pollutant	Benz[a]anthracene, Chrysene
Description	UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S. (Coal tar pitches, Benz[a]anthracene), 9, III, Marine pollutant (Benz[a]anthracene, Chrysene)
Emergency Response Guide Number	128

IATA

UN number or ID number	Forbidden BY PASSENGER AIR Forbidden
Packing group	III
Description	Forbidden

IMDG

Notes	No components found suitable for Technical Name.
UN number or ID number	UN3257
UN proper shipping name	ELEVATED TEMPERATURE LIQUID, N.O.S.
Transport hazard class(es)	9
Packing group	III
EmS-No	F-A, S-P
Marine pollutant	P
Marine pollutant	Benz[a]anthracene
Special Provisions	232, 274
Description	UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S. (Benz[a]anthracene), 9, III, Marine pollutant

15. Regulatory information**International Inventories**

TSCA Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Coal tar pitches	65996-93-2	Present	Active
Benzo(ghi)perylene	191-24-2		
Indeno(1,2,3-cd)pyrene	193-39-5	Present	Active

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Chrysene	218-01-9	Present	Active
Benzo(b)fluoranthene	205-99-2		
Fluoranthene	206-44-0	Present	Active
Benz[a]anthracene	56-55-3	Present	Active
Pyrene	129-00-0	Present	Active
Benzo(e)pyrene	192-97-2		
Benzo[a]pyrene	50-32-8	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Coal tar pitches - 65996-93-2	0.1
Indeno(1,2,3-cd)pyrene - 193-39-5	0.1
Chrysene - 218-01-9	1.0
Benzo(b)fluoranthene - 205-99-2	0.1
Benz[a]anthracene - 56-55-3	0.1
Benzo(e)pyrene - 192-97-2	0.1
Benzo[a]pyrene - 50-32-8	0.1

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Indeno(1,2,3-cd)pyrene 193-39-5	-	-	X	-
Chrysene 218-01-9	-	X	X	-
Benzo(b)fluoranthene 205-99-2	-	-	X	-
Benz[a]anthracene 56-55-3	-	-	X	-
Benzo[a]pyrene 50-32-8	-	X	X	-

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Indeno(1,2,3-cd)pyrene	100 lb	-

193-39-5		
Chrysene 218-01-9	100 lb	-
Benzo(b)fluoranthene 205-99-2	1 lb	-
Benz[a]anthracene 56-55-3	10 lb	-
Benzo[a]pyrene 50-32-8	1 lb	-

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Indeno(1,2,3-cd)pyrene - 193-39-5	Carcinogen
Chrysene - 218-01-9	Carcinogen
Benzo(b)fluoranthene - 205-99-2	Carcinogen
Benz[a]anthracene - 56-55-3	Carcinogen
Benzo[a]pyrene - 50-32-8	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Coal tar pitches 65996-93-2	X	X	X
Benzo(ghi)perylene 191-24-2	X	X	X
Indeno(1,2,3-cd)pyrene 193-39-5	X	X	X
Chrysene 218-01-9	X	X	X
Benzo(b)fluoranthene 205-99-2	X	X	X
Fluoranthene 206-44-0	X	X	X
Benz[a]anthracene 56-55-3	X	X	X
Pyrene 129-00-0	X	X	X
Benzo[a]pyrene 50-32-8	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	Health hazards 2	Flammability 0	Instability 0	Special hazards -
HMIS	Health hazards 2 *	Flammability 0	Physical hazards 0	Personal protection X
<i>Chronic Hazard Star Legend</i>	<i>* = Chronic Health Hazard</i>			

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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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.

End of Safety Data Sheet