

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 14-Sep-2020 Revision Date 14-Sep-2020 Revision Number 1

1. Identification

Product identifier

Product Name Creosote for Pressure Application

Other means of identification

Product Code(s) EPA Registration No. 73408-3

UN/ID no UN3082

Synonyms EPA Registration No. 73408-3

Recommended use of the chemical and restrictions on use

Recommended use Pressure treatment of wood as prescribed by the American Wood Protection Association

(AWPA), as set forth in the most recent edition

Restrictions on use Pesticide regulated under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA),

restricted-use pesticides are limited to use by pesticide applicators who are certified, or to

people working under the supervision of a certified applicator

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).

Carcinogenicity Category 1A

Hazards not otherwise classified (HNOC)

Not applicable. **Label elements**

Danger

Hazard statements

May cause cancer.



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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

3. Composition/information on ingredients

Substance

Not applicable.

<u>Mixture</u>

Synonyms

EPA Registration No. 73408-3

Chemical name	CAS No	Weight-%	Trade secret
Creosote	8001-58-9	56	*
Petroleum distillates, light catalytic cracked	64741-59-9	38	*
Phenanthrene	85-01-8	11.33-14.64	*
Naphthalene	91-20-3	3.47-9.40	*
Coal tar	8007-45-2	5	*
1-Methylnaphthalene	90-12-0	1.7-3.4	*

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

4. First-aid measures

Description of first aid measures

General advice 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 skin with soap and water.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

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 Ensure adequate ventilation.

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. All personnel handling treated wood or handling treating equipment that has come into contact with preservative must wear appropriate personal protective equipment (PPE), including washable or disposable coveralls or long- sleeved shirt and long pants, chemical resistant gloves, and socks plus industrial grade safety boots with chemical resistant soles. All personnel cleaning or maintaining the treatment cylinder gasket/equipment or working with concentrate or wood treatment preservative, must wear the PPE listed above as well as a full face shield. In the event of equipment malfunction, prior to cylinder ventilation, all personnel within 15 feet of the cylinder opening must also wear a properly fitting half mask elastomeric respirator with appropriate cartridges and/or

filters. Personnel must leave aprons, protective coveralls, chemical resistant gloves, work footwear, and any other material contaminated with preservative at the treatment facility. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Eating, drinking, smoking are prohibited in the treatment cylinder load-out area, drip pad area, and engineering control room of the wood treatment facilities. EXCEPTION: Where treating operator control rooms are isolated from the treating cylinders, drip pad, and work tanks; eating, drinking, and tobacco use (depending on local restrictions) are permitted.

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Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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
Phenanthrene	-	TWA: 0.2 mg/m ³	-
85-01-8			
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m ³	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m ³
		(vacated) TWA: 50 mg/m ³	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m ³
		(vacated) STEL: 75 mg/m ³	
Coal tar	-	TWA: 150 μg/m ³	TWA: 0.2 mg/m ³ Benzene
8007-45-2			soluble fraction
1-Methylnaphthalene	TWA: 0.5 ppm	-	-
90-12-0	S*		

Biological occupational exposure limits

Chemical name	ACGIH
Naphthalene	- (1-Naphthol with hydrolysis plus 2-Naphthol with
91-20-3	hydrolysis) - end of shift

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 protectionWear suitable protective clothing.

Respiratory protection Use appropriate respiratory protection.

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 Brown to black liquid

Physical state Liquid

Color brown to black Odor Aromatic

Odor threshold No data available

Property	<u>. </u>			<u>Values</u>	Remarks • Method
рН				No data available	None known
		-	_		

Melting point / freezing point < -6.7 °C None known Boiling point / boiling range No data available None known Flash point >96 °C 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 None known No data available Relative density 8.94 None known Water solubility No data available 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 50 cF 100 °F None known

No data available

Other information

Dynamic viscosity

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 Incompatible materials.

Incompatible materials Oxidizing agent.

Hazardous decomposition products Carbon oxides.

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None known

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation May be harmful if inhaled.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May be harmful in contact with skin.

Ingestion May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Product Information

 Oral LD50
 >2197
 mg/kg (rat)

 Dermal LD50
 >2000
 mg/kg (rabbit)

 Inhalation LC50
 >5.3
 mg/l (rat, 4 hr)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Creosote 8001-58-9	= 725 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Petroleum distillates, light catalytic cracked 64741-59-9	6790 - 7180 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 5.4 g/L (Rat) 4 h
Naphthalene 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h
Coal tar 8007-45-2	= 1700 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	-
1-Methylnaphthalene 90-12-0	= 1840 mg/kg (Rat)	-	-

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

Skin corrosion/irritationNo information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

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
Creosote	-	Group 2A	-	X

8001-58-9				
Phenanthrene 85-01-8	-	Group 3	-	-
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х
Coal tar 8007-45-2	-	Group 1	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably 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 No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Target organ effects Liver. Kidney. Respiratory system. Eyes. Skin. Central nervous system. Blood. Urinary

tract. Bladder. Lungs.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effectsNo information available.

12. Ecological information

EcotoxicityToxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Creosote 8001-58-9	-	LC50: 2.6 - 6.6mg/L (96h, Brachydanio rerio) LC50: =0.57mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.065 - 0.082mg/L (48h, Daphnia magna) EC50: =1.04mg/L (48h, Daphnia magna)
Petroleum distillates, light catalytic cracked 64741-59-9	-	LC50: =7.3mg/L (96h, Brachydanio rerio)	-	-
Naphthalene 91-20-3	-	LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss) LC50: 5.74 - 6.44mg/L (96h, Pimephales promelas) LC50: =1.6mg/L (96h, Oncorhynchus mykiss) LC50: =1.99mg/L (96h, Pimephales promelas) LC50: =31.0265mg/L (96h, Lepomis	-	EC50: 1.09 - 3.4mg/L (48h, Daphnia magna) EC50: =1.96mg/L (48h, Daphnia magna) LC50: =2.16mg/L (48h, Daphnia magna)

	macrochirus)	

Persistence and degradability No

No information available.

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Phenanthrene 85-01-8	4.5
Naphthalene 91-20-3	3.6

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). In case of spillage, stop the flow of material and block any potential routes to water systems. Absorb (with sand, earth, etc.) discharged material and dispose of in accordance with applicable Federal, State and local regulations. If spill is large, be prepared to isolate the hazard area. Deny access to the spill area to persons who are not involved in the cleanup and/or who have not been properly trained in spill management of hazardous liquids.

Contaminated packaging

Do not reuse empty containers.

US EPA Waste Number

U051 U120 U165

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Creosote	U051	Included in waste	-	U051
8001-58-9		streams: K001, K035		
Phenanthrene	-	Included in waste stream:	-	-
85-01-8		F039		
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025,	-	U165
		F034, F039, K001, K035,		
		K060, K087, K145		
Coal tar	-	Included in waste stream:	-	-
8007-45-2		K022		

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3	-	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free	-

radical catalyzed
processes. These
chlorinated aliphatic
hydrocarbons are those
having carbon chain
lengths ranging from one
to and including five, with
varying amounts and
positions of chlorine
substitution.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status	
Naphthalene	Toxic	
91-20-3		

14. Transport information

DOT

UN/ID no UN3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper shipping name

Transport hazard class(es)

Packing group Ш

Reportable Quantity (RQ) (Creosote: RQ (kg)= 0.454, Coal tar: RQ (kg)= 0.454, Phenanthrene: RQ (kg)= 2270.00,

Acenaphthene: RQ (kg)= 45.40, Fluoranthene: RQ (kg)= 45.40, Naphthalene: RQ (kg)= 45.40) Creosote: RQ (lb)= 1, Coal tar: RQ (lb)= 1, Phenanthrene: RQ (lb)= 5000.00, Acenaphthene: RQ (lb)= 100.00, Fluoranthene: RQ (lb)= 100.00, Naphthalene: RQ (lb)=

DOT reportable quantity kg

(calculated)

Creosote: RQ (kg)= 1, Coal tar: RQ (kg)= 9, Phenanthrene: RQ (kg)= 15516.00, Acenaphthene: RQ (kg)= 558.00, Fluoranthene: RQ (kg)= 897.00, Naphthalene: RQ

(kg) = 483.00

DOT Reportable Quantity lbs.

(calculated)

Creosote: RQ (lb)= 2, Coal tar: RQ (lb)= 20.00, Phenanthrene: RQ (lb)= 34176.00, Acenaphthene: RQ (lb)= 1230.00, Fluoranthene: RQ (lb)= 1976.00, Naphthalene: RQ

(lb) = 1064.00

Special Provisions 8, 146, 173, 335, IB3, T4, TP1, TP29

DOT Marine Pollutant

Marine pollutant Naphthalene, Coal tar

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Naphthalene, Coal tar), 9, III, Marine pollutant

Emergency Response Guide

Number

IATA

UN number or ID number UN3082

UN proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) Packing group Ш **ERG Code** 9L

Special Provisions A97, A158, A197

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Creosote, Naphthalene), 9,

IMDG Not regulated

UN number or ID number

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9 Packing group Ш **EmS-No** F-A, S-F

Marine pollutant F

Marine pollutant Creosote, Naphthalene

Special Provisions 274, 335, 969

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote,

Naphthalene), 9, III, (0°C C.C.), 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
Creosote	8001-58-9	Present	Active
Petroleum distillates, light catalytic cracked	64741-59-9	Present	Active
Phenanthrene	85-01-8	Present	Active
Naphthalene	91-20-3	Present	Active
Acenaphthene	83-32-9	Present	Active
Fluoranthene	206-44-0	Present	Active
Coal tar	8007-45-2	Present	Active
1-Methylnaphthalene	90-12-0	Present	Active
Water	7732-18-5	Present	Active

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 %	
Creosote - 8001-58-9	0.1	
Phenanthrene - 85-01-8	1.0	
Naphthalene - 91-20-3	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
Phenanthrene 85-01-8	-	-	Х	-
Naphthalene 91-20-3	100 lb	Х	Х	Х

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
Creosote	1 lb	-
8001-58-9		
Phenanthrene	5000 lb	-
85-01-8		
Naphthalene	100 lb	-
91-20-3		
Coal tar	1 lb	-
8007-45-2		

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Creosote - 8001-58-9	Carcinogen	
Naphthalene - 91-20-3	Carcinogen	
Coal tar - 8007-45-2	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Creosote 8001-58-9	X	X	X
Phenanthrene 85-01-8	X	X	X
Naphthalene 91-20-3	X	X	X
Acenaphthene 83-32-9	X	X	X
Fluoranthene 206-44-0	X	X	X
Coal tar 8007-45-2	X	X	X
1-Methylnaphthalene 90-12-0	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA **Health hazards** 3 Flammability 0 **Instability** 0 Special hazards -HMIS Health hazards 3 * Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average) TWA **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