



Safety Data Sheet

Material Name: Crude Coal Tar

SDS ID: STE-010

Section 1 - IDENTIFICATION

Material Name: Crude Coal Tar

Trade Names/Synonyms

Brush Base; Mastic Base; Coating Grade Tar; Roofing Grade Tar Base; RT-5 through RT-9

Chemical Family

Aromatic hydrocarbons

Recommended Use

Coating and epoxy

Restrictions on Use

None known.

Manufacturer Information

Stella-Jones Corporation
Park West One, Suite 500
1000 Cliff Mine Road
Pittsburgh, PA 15275
Phone: 412-325-0202

CHEMTREC®: 800-424-9300 (Intl. 703-527-3887)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with 29 CFR 1910.1200

Acute Toxicity (Oral), Category 4

Eye Damage / Irritation, Category 2B

Sensitization - Skin, Category 1

Germ Cell Mutagenicity, Category 1B

Carcinogenicity, Category 1A

Toxic to Reproduction, Category 1B

Specific Target Organ Toxicity - Single Exposure, Category 1 (blood, eyes, and respiratory system)

Specific Target Organ Toxicity - Repeated Exposure, Category 1 (blood, eyes, respiratory system, kidneys, and liver)

Hazardous to the Aquatic Environment - Acute Hazard, Category 1

Hazardous to the Aquatic Environment - Chronic Hazard, Category 1

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Harmful if swallowed.

Causes eye irritation.

May cause an allergic skin reaction.

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May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to blood, eyes, and respiratory system.
Causes damage to blood, eyes, and respiratory system through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Prevention

Do not breathe vapor or mist. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment.

Response

IF EXPOSED OR CONCERNED: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) Not Otherwise Classified

May cause thermal burns from heated material.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent
8007-45-2	Coal tar	100
91-20-3	Naphthalene	25.7
206-44-0	Fluoranthene	11.7
129-00-0	Pyrene	8.72
205-99-2	Benzo(b)fluoranthene	3.82
85-01-8	Phenanthrene	2.87
50-32-8	Benzo[a]pyrene	1.64
207-08-9	Benzo(k)fluoranthene	1.16
218-01-9	Chrysene	0.741
56-55-3	Benz[a]anthracene	0.545
121-14-2	2,4-Dinitrotoluene	0.335
108-95-2	Phenol	0.135

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Coal tar pitches (65996-93-2), Aromatic hydrocarbons, polycyclic (130498-29-2), Phenols.

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Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. For thermal burns, cool affected areas as quickly as possible by drenching or immersing in water. Call a poison control center or doctor for further treatment advice.

Eyes

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Rinse mouth.

Most Important Symptoms/Effects

Acute

Eye irritation, allergic reactions, blood damage, eye damage, respiratory system damage

Delayed

Allergic reactions, blood damage, eye damage, kidney damage, liver damage, respiratory system damage, heritable genetic damage, cancer, reproductive effects

Indication of Immediate Medical Attention and Special Treatment

Treat symptomatically and supportively.

Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Closed containers may rupture violently when heated. Contact with heat may generate toxic and/or flammable gases.

Hazardous Combustion Products

Combustion: Oxides of carbon, oxides of nitrogen

Fire Fighting Measures

Stop leak if possible without personal risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water may be used to blanket fire. Directly spraying water or foam onto hot burning product may cause frothing. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire-fighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

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Methods and Materials for Containment and Cleaning Up

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. This product is toxic to aquatic organisms. 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.

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Avoid breathing vapors of heated materials. Avoid prolonged or repeated contact with skin or eyes. Avoid contact with molten material. Wear appropriate protective equipment when performing maintenance on contaminated equipment. Observe good hygiene and safety practices when handling this product.

Conditions for Safe Storage, including any Incompatibilities

Do not store in open, unlabeled or mislabeled containers. Protect from physical damage. Keep in a closed, properly labeled container in a cool (shaded), dry, well-ventilated area. Keep separated from incompatible substances. Maintain good housekeeping.

Incompatibilities: Avoid oxidizing materials.

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

Coal tar (8007-45-2)

ACGIH: 0.2 mg/m³ TWA (as benzene soluble aerosol, related to Coal tar pitches)
NIOSH: 0.1 mg/m³ TWA (Cyclohexane-extractable fraction, related to Coal tar pitches)
80 mg/m³ IDLH (related to Coal tar pitches)
OSHA (US): 0.2 mg/m³ TWA (benzene soluble fraction, related to Coal tar pitches)
OSHA (vacated): 0.2 mg/m³ TWA (benzene soluble fraction, related to Coal tar pitches)
Mexico: 0.002 mg/m³ TWA LMPE-PPT; 0.02 mg/m³ TWA LMPE-PPT (as Particulate polycyclic aromatic hydrocarbons, related to Coal tar pitches)
0.015 ppm STEL [LMPE-CT]; 0.03 mg/m³ STEL [LMPE-CT] (related to Coal tar pitches)

Naphthalene (91-20-3)

ACGIH: 10 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH: 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL
250 ppm IDLH
OSHA (US): 10 ppm TWA; 50 mg/m³ TWA
OSHA (vacated): 10 ppm TWA; 50 mg/m³ TWA
15 ppm STEL; 75 mg/m³ STEL
Mexico: 10 ppm TWA LMPE-PPT; 50 mg/m³ TWA LMPE-PPT
15 ppm STEL [LMPE-CT]; 75 mg/m³ STEL [LMPE-CT]

Pyrene (129-00-0)

OSHA (US): 0.2 mg/m³ TWA

Phenanthrene (85-01-8)

OSHA (US): 0.2 mg/m³ TWA

Benzo[a]pyrene (50-32-8)

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OSHA (US): 0.2 mg/m3 TWA
Chrysene (218-01-9)

OSHA (US): 0.2 mg/m3 TWA

Phenol (108-95-2)

ACGIH: 5 ppm TWA

Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH: 5 ppm TWA; 19 mg/m3 TWA

15.6 ppm Ceiling (15 min); 60 mg/m3 Ceiling (15 min)

Potential for dermal absorption

250 ppm IDLH

OSHA (US): 5 ppm TWA; 19 mg/m3 TWA

prevent or reduce skin absorption

OSHA (vacated): 5 ppm TWA; 19 mg/m3 TWA

Prevent or reduce skin absorption

Mexico: 5 ppm TWA LMPE-PPT; 19 mg/m3 TWA LMPE-PPT

10 ppm STEL [LMPE-CT]; 38 mg/m3 STEL [LMPE-CT]

Skin - potential for cutaneous absorption

Appropriate Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear chemical safety goggles with a faceshield or chemical splash hood. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. To reduce sun sensitivity, a sun-blocking lotion (SPF15+) can also be applied. Wear washable or disposable coveralls or long-sleeved shirt and long pants. Wear socks plus industrial grade safety boots with chemical resistant soles. At elevated temperatures: Wear appropriate heat resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves. At elevated temperatures: Wear appropriate heat resistant gloves.

Respiratory Protection

If the applicable TLVs and/or PELs are exceeded, use canister or cartridge respirators, which are MSHA/NIOSH-approved, with organic vapor cartridges.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State: Liquid	Appearance: black viscous semi-solid
Color: Black	Physical Form: semi-solid (liquid when heated)
Odor: Naphthalene odor	Odor Threshold: Not available
pH: Not available	Melting Point: Not available
Boiling Point: Not available	Decomposition: Not available
Flash Point: >150 °C	Evaporation Rate: Not available
OSHA Flammability Class: IIIB	LEL: Not available
UEL: Not available	Vapor Pressure: <1 mm
Vapor Density (air = 1): Not available	Density: Not available
Specific Gravity (water = 1): Not available	Water Solubility: Negligible
Log KOW: Not available	Coeff. Water/Oil Dist: Not available
Auto Ignition: Not available	Viscosity: Not available
Volatility: Not available	

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Other Property Information

No additional information.

* * *Section 10 - STABILITY AND REACTIVITY* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. When heated above its boiling point, may generate vapors that may ignite in air and a source of ignition. Avoid contact with water when in a confined space at elevated temperatures.

Incompatible Materials

Avoid oxidizing materials.

Hazardous Decomposition

Combustion: Oxides of carbon, oxides of nitrogen

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Coal tar (8007-45-2)

Dermal LD50 Rabbit 15800 mg/kg; Oral LD50 Rat 1700 mg/kg

Naphthalene (91-20-3)

Dermal LD50 Rabbit 1120 mg/kg; Inhalation LC50 Rat >340 mg/m³ 1 h; Oral LD50 Rat 1110 mg/kg

Fluoranthene (206-44-0)

Oral LD50 Rat 2 g/kg

Pyrene (129-00-0)

Oral LD50 Rat 2700 mg/kg

Phenanthrene (85-01-8)

Oral LD50 Mouse 700 mg/kg

2,4-Dinitrotoluene (121-14-2)

Dermal LD50 Rat >2500 mg/kg; Oral LD50 Rat 268 mg/kg

Phenol (108-95-2)

Dermal LD50 Rabbit 630 mg/kg; Oral LD50 Rat 340 mg/kg

Information on Likely Routes of Exposure

Inhalation

Irritation, nausea, vomiting, diarrhea, headache, irregular heartbeat, coma, blood damage, eye damage, kidney damage, liver damage, cancer

Ingestion

Gastrointestinal irritation, headache, nausea, vomiting, stomach pain, irregular heartbeat, convulsions, coma, blood damage, kidney damage, liver damage

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Skin Contact

Irritation, sensitivity to sunlight, skin disorders, thermal burns from heated material

Eye Contact

Irritation, tearing, sensitivity to sunlight, eye damage, thermal burns from heated material

Immediate Effects

Eye irritation, allergic reactions, blood damage, eye damage, respiratory system damage

Delayed Effects

Allergic reactions, blood damage, eye damage, kidney damage, liver damage, respiratory system damage

Medical Conditions Aggravated by Exposure

Medical conditions may include respiratory disorders, skin disorders, and central nervous system disorders.

Irritation/Corrosivity Data

Eye irritation

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

Component data indicate the substance is sensitizing.

Carcinogenicity

Component Carcinogenicity

Coal tar (8007-45-2)

ACGIH: A1 - Confirmed Human Carcinogen (related to Coal tar pitches)

IARC: Supplement 7 [1987] (see coal-tar distillation RR-56753-3 in Monograph 100F); Monograph 35 [1985] (Group 1 (carcinogenic to humans))

NTP: Known Human Carcinogen

Naphthalene (91-20-3)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))

NTP: Reasonably Anticipated To Be A Human Carcinogen

Fluoranthene (206-44-0)

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 3 (not classifiable))

NTP: Reasonably Anticipated To Be A Human Carcinogen (related to Aromatic hydrocarbons, polycyclic)

Pyrene (129-00-0)

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 3 (not classifiable))

NTP: Reasonably Anticipated To Be A Human Carcinogen (related to Aromatic hydrocarbons, polycyclic)

Benzo(b)fluoranthene (205-99-2)

ACGIH: A2 - Suspected Human Carcinogen

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 2B (possibly carcinogenic to humans))

NTP: Reasonably Anticipated To Be A Human Carcinogen

Phenanthrene (85-01-8)

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 3 (not classifiable))

NTP: Reasonably Anticipated To Be A Human Carcinogen (related to Aromatic hydrocarbons, polycyclic)

Benzo[a]pyrene (50-32-8)

ACGIH: A2 - Suspected Human Carcinogen

IARC: Monograph 100F [2012]; Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983]

(overall evaluation upgraded from Group 2B to Group 1 based on mechanistic and other relevant data) (Group 1 (carcinogenic to humans))

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NTP: Reasonably Anticipated To Be A Human Carcinogen

Benzo(k)fluoranthene (207-08-9)

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 2B (possibly carcinogenic to humans))

NTP: Reasonably Anticipated To Be A Human Carcinogen

Chrysene (218-01-9)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 2B (possibly carcinogenic to humans))

NTP: Reasonably Anticipated To Be A Human Carcinogen (related to Aromatic hydrocarbons, polycyclic)

Benz[a]anthracene (56-55-3)

ACGIH: A2 - Suspected Human Carcinogen

IARC: Monograph 92 [2010]; Supplement 7 [1987]; Monograph 32 [1983] (Group 2B (possibly carcinogenic to humans))

NTP: Reasonably Anticipated To Be A Human Carcinogen

2,4-Dinitrotoluene (121-14-2)

IARC: Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))

Phenol (108-95-2)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Mutagenic Data

Available data characterizes this substance as mutagenic.

Reproductive Effects Data

Available data characterizes components of this product as reproductive hazards.

Specific Target Organ Toxicity - Single Exposure

Blood, eyes, respiratory system

Specific Target Organ Toxicity - Repeated Exposure

Blood, eyes, kidneys, liver, respiratory system

Aspiration Hazard

No information is available.

*** * *Section 12 - ECOLOGICAL INFORMATION* * ***

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component Analysis - Aquatic Toxicity

Naphthalene (91-20-3)

Fish: 96 Hr LC50 Pimephales promelas: 5.74 - 6.44 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1.6 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 0.91 - 2.82 mg/L [static]; 96 Hr LC50 Pimephales promelas: 1.99 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 31.0265 mg/L [static]

Invertebrate: 48 Hr LC50 Daphnia magna: 2.16 mg/L; 48 Hr EC50 Daphnia magna: 1.96 mg/L [Flow through]; 48 Hr EC50 Daphnia magna: 1.09 - 3.4 mg/L [Static]

Pyrene (129-00-0)

Invertebrate: 48 Hr EC50 water flea: 1.8 mg/L

Benz[a]anthracene (56-55-3)

Invertebrate: 48 Hr EC50 Daphnia magna: 0.0042 mg/L

2,4-Dinitrotoluene (121-14-2)

Fish: 96 Hr LC50 Pimephales promelas: 23 - 25.6 mg/L [flow-through]; 96 Hr LC50

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Pimephales promelas: 27.3 - 38 mg/L [static]; 96 Hr LC50 Pimephales promelas: 32.5 mg/L; 96 Hr LC50 Lepomis macrochirus: 16 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 12.8 mg/L [static]; 96 Hr LC50 Oryzias latipes: >16 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: >16 mg/L [semi-static]

Invertebrate: 48 Hr EC50 Daphnia magna: 22.5 - 30.5 mg/L

Phenol (108-95-2)

Fish: 96 Hr LC50 Pimephales promelas: 11.9 - 50.5 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 20.5 - 25.6 mg/L [static]; 96 Hr LC50 Pimephales promelas: 32 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 5.449 - 6.789 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 7.5 - 14 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.23 - 7.49 mg/L [semi-static]; 96 Hr LC50 Oncorhynchus mykiss: 5.0 - 12.0 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.5 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 11.9 - 25.3 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 11.5 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 34.09 - 47.64 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 31 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 27.8 mg/L; 96 Hr LC50 Cyprinus carpio: 0.00175 mg/L [semi-static]; 96 Hr LC50 Oryzias latipes: 33.9 - 43.3 mg/L [flow-through]; 96 Hr LC50 Oryzias latipes: 23.4 - 36.6 mg/L [static]

Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 46.42 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.0188 - 0.1044 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 187 - 279 mg/L [static]

Invertebrate: 48 Hr EC50 Daphnia magna: 4.24 - 10.7 mg/L [Static]; 48 Hr EC50 Daphnia magna: 10.2 - 15.5 mg/L

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Absorb (with sand, earth, etc.) discharged material and dispose of in accordance with applicable Federal, State and local regulations.

Waste Numbers

2,4-Dinitrotoluene (121-14-2)

RCRA: 0.13 mg/L regulatory level

Section 14 - TRANSPORT INFORMATION

US DOT Information

Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Contains: Naphthalene, Benzo[a]pyrene), RQ

UN/NA #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): 9

US DOT Reportable Quantities

Naphthalene (91-20-3)

100 lbs RQ; 45.4 kg RQ

Fluoranthene (206-44-0)

100 lbs RQ; 45.4 kg RQ

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Pyrene (129-00-0)

5000 lbs RQ; 2270 kg RQ

Benzo(b)fluoranthene (205-99-2)

1 lbs RQ; 0.454 kg RQ

Phenanthrene (85-01-8)

5000 lbs RQ; 2270 kg RQ

Benzo[a]pyrene (50-32-8)

1 lbs RQ; 0.454 kg RQ

Benzo(k)fluoranthene (207-08-9)

5000 lbs RQ; 2270 kg RQ

Chrysene (218-01-9)

100 lbs RQ; 45.4 kg RQ

Benz[a]anthracene (56-55-3)

10 lbs RQ; 4.54 kg RQ

2,4-Dinitrotoluene (121-14-2)

10 lbs RQ; 4.54 kg RQ

Phenol (108-95-2)

1000 lbs RQ; 454 kg RQ

TDG Information

Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains: Naphthalene, Benzo[a]pyrene)

UN #: UN3082 **Hazard Class:** 9 **Packing Group:** III

Required Label(s): 9

Component Marine Pollutants (IMDG)

This material contains one or more of the following chemicals required by IMDG to be identified as marine pollutants.

Coal tar (8007-45-2)

IMDG regulated marine pollutant (Listed in the index)

Naphthalene (91-20-3)

IMDG regulated marine pollutant (UN1334); IMDG regulated marine pollutant (UN2304)

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Coal tar (8007-45-2)

TSCA 12b: Section 5, 0.1 % de minimus concentration

Naphthalene (91-20-3)

SARA 313: 0.1 % de minimis concentration

CERCLA: 100 lb final RQ; 45.4 kg final RQ

Fluoranthene (206-44-0)

SARA 313: 1.0 % Supplier notification limit

CERCLA: 100 lb final RQ; 45.4 kg final RQ

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Pyrene (129-00-0)

SARA 302: 1000 lb lower TPQ; 10000 lb upper TPQ

SARA 304: 5000 lb EPCRA RQ

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Benzo(b)fluoranthene (205-99-2)

SARA 313: 0.1 % Supplier notification limit

CERCLA: 1 lb final RQ; 0.454 kg final RQ

Phenanthrene (85-01-8)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Benzo[a]pyrene (50-32-8)

SARA 313: 0.1 % Supplier notification limit

CERCLA: 1 lb final RQ; 0.454 kg final RQ

Benzo(k)fluoranthene (207-08-9)

SARA 313: 0.1 % Supplier notification limit

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Chrysene (218-01-9)

SARA 313: 1.0 % Supplier notification limit

CERCLA: 100 lb final RQ; 45.4 kg final RQ

Benz[a]anthracene (56-55-3)

SARA 313: 0.1 % Supplier notification limit

CERCLA: 10 lb final RQ; 4.54 kg final RQ

2,4-Dinitrotoluene (121-14-2)

SARA 313: 0.1 % de minimis concentration

CERCLA: 10 lb final RQ; 4.54 kg final RQ

Phenol (108-95-2)

SARA 302: 500 lb lower TPQ; 10000 lb upper TPQ

SARA 304: 1000 lb EPCRA RQ

SARA 313: 1.0 % de minimis concentration

CERCLA: 1000 lb final RQ; 454 kg final RQ

FIFRA Information

Component Analysis

Phenol (108-95-2)

Section number 180.920; Section number 180.930

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

Component	CAS	CA	MA	MN	NJ	PA
Coal tar	8007-45-2	Yes	Yes	Yes	Yes	Yes
Naphthalene	91-20-3	Yes	Yes	Yes	Yes	Yes
Fluoranthene (¹related to: Aromatic hydrocarbons, polycyclic)	206-44-0	Yes	Yes	Yes¹	Yes	Yes
Pyrene (¹related to: Aromatic hydrocarbons, polycyclic)	129-00-0	Yes	Yes	Yes¹	Yes	Yes
Benzo(b)fluoranthene	205-99-2	Yes	Yes	Yes	Yes	Yes
Phenanthrene (¹related to: Aromatic hydrocarbons, polycyclic)	85-01-8	Yes	Yes	Yes¹	Yes	Yes
Benzo[a]pyrene	50-32-8	Yes	Yes	Yes	Yes	Yes
Benzo(k)fluoranthene	207-08-9	Yes	Yes	Yes	Yes	Yes
Chrysene	218-01-9	Yes	Yes	Yes	Yes	Yes
Benz[a]anthracene	56-55-3	Yes	Yes	Yes	Yes	Yes

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2,4-Dinitrotoluene	121-14-2	Yes	Yes	No	Yes	Yes
Phenol	108-95-2	Yes	Yes	Yes	Yes	Yes

The following components appear on one or more of the following state hazardous substances lists:

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. WHMIS CLASSIFICATION: D2A, D2B.

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on SDSs if they are included in products which fall under WHMIS criteria specified in the Controlled Products Regulations and present above the threshold limits listed on the IDL.

Coal tar (8007-45-2)

1 %

Naphthalene (91-20-3)

1 %

Fluoranthene (206-44-0)

1 %

Pyrene (129-00-0)

1 %

Benzo(b)fluoranthene (205-99-2)

0.1 %

Phenanthrene (85-01-8)

1 %

Benzo[a]pyrene (50-32-8)

0.1 %

Chrysene (218-01-9)

0.1 %

Benz[a]anthracene (56-55-3)

0.1 %

Safety Data Sheet

Material Name: Crude Coal Tar

SDS ID: STE-010

Component Analysis – Inventory

Component	CAS	US	CA
Coal tar	8007-45-2	Yes	DSL
Naphthalene	91-20-3	Yes	DSL
Fluoranthene	206-44-0	Yes	NSL
Pyrene	129-00-0	Yes	DSL
Benzo(b)fluoranthene	205-99-2	No	No
Phenanthrene	85-01-8	Yes	DSL
Benzo[a]pyrene	50-32-8	Yes	DSL
Benzo(k)fluoranthene	207-08-9	No	No
Chrysene	218-01-9	Yes	DSL
Benz[a]anthracene	56-55-3	Yes	NSL
2,4-Dinitrotoluene	121-14-2	Yes	DSL
Phenol	108-95-2	Yes	DSL

Section 16 - OTHER INFORMATION

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CPR - Controlled Products Regulations; DSL - Domestic Substances List; EPA - Environmental Protection Agency; F - Fahrenheit; IARC - International Agency for Research on Cancer; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Read the Safety Data Sheet before handling product.

SDS History

Revision 2.0000, 31 May 2015: Updated to OSHA GHS format.

End of Sheet STE-010