

Revision Date: 04/10/2019

SAFETY DATA SHEET

1. Identification

Material name: TREMFIX A.F. 5 US GL

Material: 350715 805

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Beachwood OH 44122 US

Contact person: Telephone:

EH&S Department 216-292-5000

Emergency telephone number:

1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin sensitizer Category 1
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A
Toxic to reproduction Category 1B

Unknown toxicity - Health

Acute toxicity, oral 18.96 %
Acute toxicity, dermal 18.97 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 100 %

or mist

Environmental Hazards

Acute hazards to the aquatic Category 1 environment

Unknown toxicity - Environment

Acute hazards to the aquatic 94.5 %

environment

Chronic hazards to the aquatic 100 %

environment

Label Elements



Revision Date: 04/10/2019

Hazard Symbol:



Signal Word: Danger

Hazard Statement: May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

May damage fertility or the unborn child.

Very toxic to aquatic life.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. 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. Use personal protective equipment as required. Avoid

release to the environment.

Response: IF ON SKIN: Wash with plenty of water/... If skin irritation or rash occurs:

Get medical advice/attention. IF exposed or concerned: Get medical

advice/attention. Specific treatment (see on this label). Wash contaminated

clothing before reuse. Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
-------------------	------------	-------------------------



Revision Date: 04/10/2019

	.=	
Coal tar pitch	65996-93-2	50 - <100%
Calcium Carbonate	1317-65-3	5 - <10%
(Limestone)		
Cellulose	9004-34-6	1 - <5%
Creosote	8001-58-9	1 - <5%
Phenanthrene	85-01-8	1 - <5%
Fluorathene	206-44-0	1 - <5%
Clay	1332-58-7	0.1 - <1%
Naphthalene	91-20-3	0.1 - <1%
Anthracene	120-12-7	0.001 - <1%
Indeno[1,2,3-cd]pyrene	193-39-5	0.1 - <1%
Benzo(a)anthracene	56-55-3	0.1 - <1%
Chrysene	218-01-9	0.1 - <1%
Benzo(a)pyrene	50-32-8	0.3 - <1%
Acenaphthene	83-32-9	0.1 - <1%
Dibenzofuran	132-64-9	0.1 - <1%
Benzo(b)fluoranthene/benzo[e] acefenantrileno	205-99-2	0.1 - <1%
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Get medical attention if symptoms occur. Destroy or thoroughly clean

contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or

an allergic skin reaction develops, get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately

with water. If easy to do, remove contact lenses. If eye irritation

persists: Get medical advice/attention.

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Personal Protection for First-

aid Responders:

Self-contained breathing apparatus and full protective clothing must

be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures



Revision Date: 04/10/2019

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and

emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not touch

damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

Accidental release measures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Methods and material for containment and cleaning

up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for

disposal according to local regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

ventilation or local exhaust ventilation may be required.

Safe handling advice: Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Contact avoidance measures: No data available.



Revision Date: 04/10/2019

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the

workplace. Avoid contact with skin.

Storage

Safe storage conditions: Store locked up.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Coal tar pitch - Aerosol as benzene solubles	TWA	0.2 mg/m3	US. ACGIH Threshold Limit Values (2011)
Coal tar pitch	PEL	0.2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Cellulose	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
Cellulose - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Cellulose - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Clay - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Clay - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Clay - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Clay - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Naphthalene	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
•	PEL	10 ppm 50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)



Revision Date: 04/10/2019

	of air	
TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000)
		(2000)

Chemical name	Туре	Exposure Limit	Values	Source
Coal tar pitch - Aerosol as benzene solubles	TWA		0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Coal tar pitch - Aerosol as benzene solubles	TWA		0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Coal tar pitch - as benzene solubles	TWA		0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL		20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Respirable fraction.	TWA		3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Cellulose - Respirable fraction.	TWA		3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cellulose - Total dust.	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cellulose	TWA		10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Cellulose - Total dust.	TWA		10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Naphthalene	STEL	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
_	TWA	10 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Naphthalene	TWA	10 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Naphthalene	TWA	10 ppm	52 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	STEL	15 ppm	79 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)



Revision Date: 04/10/2019

Benzo(a)pyrene	TWA	0.005 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Exposure guidelines

Naphthalene	US. ACGIH Threshold Limit Values	Can be absorbed through		
		the skin.		

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists,

mechanical generation of dusts, drying of solids, etc.

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

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves,

footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific

information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the

workplace. Avoid contact with skin.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Black
Odor: Aromatic



Revision Date: 04/10/2019

Odor threshold: No data available. :Ha No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: 150 °C 302 °F Flash Point: > 93 °C > 199 °F **Evaporation rate:** Slower than Ether

Flammability (solid, gas): Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. **Explosive limit - lower (%):** No data available. Vapor pressure: No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

1.26 Relative density:

Solubility(ies)

Solubility in water: Practically Insoluble Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available. **Decomposition temperature:** No data available. Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and

chromates).

Hazardous Decomposition

Products:

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and

Thermal decomposition or combustion may liberate carbon oxides and

mucus membranes.

Skin Contact: May be harmful in contact with skin. May cause an allergic skin reaction.



Revision Date: 04/10/2019

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: 725.00 mg/kg

ATEmix: 16,695.42 mg/kg

Dermal

Product: ATEmix: 2,186.07 mg/kg

Inhalation Product:

Specified substance(s):

Cellulose LC 50 (Rabbit): 20.1 mg/l

Clay LC 50 (Rat): > 20 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Coal tar pitch in vivo (Rabbit): Not irritant

Naphthalene in vivo (Rabbit): Not irritant

Anthracene in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):



Revision Date: 04/10/2019

Coal tar pitch Rabbit, 1 hrs: Not irritating

Anthracene Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Coal tar pitch Overall evaluation: Carcinogenic to humans.

Creosote Overall evaluation: Probably carcinogenic to humans.

Naphthalene Overall evaluation: Possibly carcinogenic to humans.

Indeno[1,2,3-cd]pyrene

Overall evaluation: Possibly carcinogenic to humans.

Benzo(a)anthracen

Overall evaluation: Possibly carcinogenic to humans.

е

Chrysene Overall evaluation: Possibly carcinogenic to humans.

Benzo(a)pyrene Overall evaluation: Carcinogenic to humans.

Benzo(b)fluoranthe ne/benzo[e]acefena

he Overall evaluation: Possibly carcinogenic to humans.

ntrileno

Crystalline Silica

(Quartz)/ Silica

Sand

Overall evaluation: Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

Coal tar pitch Known To Be Human Carcinogen.

Naphthalene Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.

cd]pyrene

Benzo(a)anthracen Reasonably Anticipated to be a Human Carcinogen.

e

Benzo(a)pyrene Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.

ne/benzo[e]acefena ntrileno

Crystalline Silica (Quartz)/ Silica

Sand

Known To Be Human Carcinogen.



Revision Date: 04/10/2019

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Crystalline Silica

(Quartz)/ Silica Cancer

Sand

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product:
No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Phenanthrene LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 3.2

mg/l Mortality

Fluorathene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.074 - 0.113 mg/l

Mortality

Naphthalene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4.9 mg/l Mortality

Anthracene LC 50 (Bluegill (Lepomis macrochirus), 96 h): 0.00594 - 0.00781 mg/l

Mortality



Revision Date: 04/10/2019

Acenaphthene LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.52 - 0.71 mg/l

Mortality

Dibenzofuran LC 50 (Sheepshead minnow (Cyprinodon variegatus), 48 h): > 3.2 mg/l

Mortality

LC 50 (Sheepshead minnow (Cyprinodon variegatus), 72 h): 2.6 - 4.2 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.84 - 1.31 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.04 - 1.25 mg/l

Mortality

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.62 - 1.95 mg/l

Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Phenanthrene LC 50 (Water flea (Daphnia magna), 48 h): 0.59 - 0.84 mg/l Mortality

Fluorathene LC 50 (Water flea (Daphnia magna), 24 h): 1,000 - 1,600 mg/l Mortality

EC 50 (Water flea (Daphnia magna), 7 d): > 0.01 - 0.012 mg/l Intoxication LC 50 (Purple-spined sea urchin (Arbacia punctulata), 48 h): > 0.127 mg/l

Mortality

EC 50 (Water flea (Daphnia magna), 7 d): > 0.01 - 0.015 mg/l Intoxication LC 50 (Purple-spined sea urchin (Arbacia punctulata), 96 h): > 0.033 mg/l

Mortality

Naphthalene LC 50 (Water flea (Daphnia magna), 48 h): 3.4 mg/l Mortality

Anthracene EC 50 (Water flea (Daphnia magna), 24 h): 0.189 - 0.236 mg/l Intoxication

LC 50 (Pacific oyster (Crassostrea gigas), 48 h): > 5 mg/l Mortality

LC 50 (Clam (Mulinia lateralis), 96 h): > 13.3 mg/l Mortality

Benzo(a)anthracene LC 50 (Water flea (Daphnia pulex), 96 h): 0.01 mg/l Mortality

Chrysene LC 50 (Polychaete worm (Nereis arenaceodentata), 96 h): < 1 mg/l Mortality

Benzo(a)pyrene EC 50 (Water flea (Daphnia magna), 24 h): 0.032 - 0.049 mg/l Intoxication

LC 50 (Scud (Gammarus duebeni), 48 h): < 150 mg/l Mortality

LC 50 (Polychaete worm (Nereis arenaceodentata), 96 h): < 1 mg/l Mortality

Acenaphthene LC 50 (Water flea (Daphnia magna), 24 h): > 280 mg/l Mortality

LC 50 (Snail (Aplexa hypnorum), 96 h): > 2.04 mg/l Mortality

Dibenzofuran LC 50 (Water flea (Daphnia magna), 24 h): 4.4 - 13 mg/l Mortality

Benzo(b)fluoranthene/be

nzo[e]acefenantrileno

EC 50 (Water flea (Daphnia magna), 24 h): > 1.024 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish

Product: No data available.



Revision Date: 04/10/2019

Specified substance(s):

Coal tar pitch LC 50 (Danio rerio, 42 d): > 4 µg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

NOAEL (Danio rerio, 42 d): 4 µg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Phenanthrene Water flea (Daphnia pulex), Bioconcentration Factor (BCF): 325 (Static)

Fluorathene Water flea (Daphnia magna), Bioconcentration Factor (BCF): 1,741.8 (Static)

Naphthalene Rainbow trout, donaldson trout (Oncorhynchus mykiss), Bioconcentration

Factor (BCF): 13,000 (Flow through)

Anthracene Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF):

7,800 (Static)

Benzo(a)anthracene Water flea (Daphnia pulex), Bioconcentration Factor (BCF): 10,109 (Static)

Chrysene Water flea (Daphnia magna), Bioconcentration Factor (BCF): 6,088.4 (Static)

Benzo(a)pyrene Water flea (Daphnia pulex), Bioconcentration Factor (BCF): 2,720 (Static)

Acenaphthene Bluegill (Lepomis macrochirus), Bioconcentration Factor (BCF): 387 (Flow

through)

Benzo(b)fluoranthene/be

Mussel (Mytilus edulis planulatus), Bioconcentration Factor (BCF): 5,200,000 nzo[e]acefenantrileno

(Lentic - static water system without measurable flow rate (e.g. lake))

Bioconcentration factor calculated using dry weight tissue conc

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.



Revision Date: 04/10/2019

Specified substance(s):

Creosote Log Kow: 1.0

Phenanthrene Log Kow: 4.57

Fluorathene Log Kow: 5.16

Naphthalene Log Kow: 3.30

Anthracene Log Kow: 4.45

Benzo(a)anthracene Log Kow: 5.79

Chrysene Log Kow: 5.73

Benzo(a)pyrene Log Kow: 5.97

Acenaphthene Log Kow: 3.92

Dibenzofuran Log Kow: 4.12

Benzo(b)fluoranthene/be

nzo[e]acefenantrileno

No data available.

Log Kow: 6.60

Other adverse effects: Very toxic to aquatic organisms.

13. Disposal considerations

Mobility in soil:

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Coal Tar), 9, PG III, MARINE POLLUTANT



Revision Date: 04/10/2019

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical IdentityOSHA hazard(s)Crystalline Silicakidney effects(Quartz)/ Silica Sandlung effects

immune system effects

Cancer

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Creosote	1 lbs.
Fluorathene	100 lbs.
Phenanthrene	5000 lbs.
Naphthalene	100 lbs.
Anthracene	5000 lbs.
Indeno[1,2,3-cd]pyrene	100 lbs.
Benzo(a)anthracene	10 lbs.
Chrysene	100 lbs.
Benzo(a)pyrene	1 lbs.
Acenaphthene	100 lbs.
Dibenzofuran	100 lbs.
Benzo(b)fluoranthene/benzo[e]acefenantrileno	1 lbs.
Biphenyl	100 lbs.
Dibenz(a,h)anthracene	1 lbs.
Pyrene	5000 lbs.
Acenaphthylene	5000 lbs.
Fluorene	5000 lbs.
Quinoline	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Skin sensitizer Germ Cell Mutagenicity Carcinogenicity Toxic to reproduction



Revision Date: 04/10/2019

SARA 302 Extremely Hazardous Substance

Reportable

quantity **Threshold Planning Quantity Chemical Identity**

Pyrene 5000 lbs.

SARA 304 Emergency Release Notification Chemical Identity

SAKA 304 Emergency Release Notification	
Chemical Identity	Reportable quantity
Creosote	1 lbs.
Fluorathene	100 lbs.
Phenanthrene	5000 lbs.
Naphthalene	100 lbs.
Anthracene	5000 lbs.
Indeno[1,2,3-cd]pyrene	100 lbs.
Benzo(a)anthracene	10 lbs.
Chrysene	100 lbs.
Benzo(a)pyrene	1 lbs.
Acenaphthene	100 lbs.
Dibenzofuran	100 lbs.
Benzo(b)fluoranthene/benzo[e]acefenantrileno	1 lbs.
Biphenyl	100 lbs.
Dibenz(a,h)anthracene	1 lbs.
Pyrene	5000 lbs.
Acenaphthylene	5000 lbs.
Fluorene	5000 lbs.
Quinoline	5000 lbs.



Revision Date: 04/10/2019

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Pyrene	500lbs
Coal tar pitch	10000 lbs
Calcium Carbonate (Limestone)	10000 lbs
Cellulose	10000 lbs
Creosote	10000 lbs
Phenanthrene	10000 lbs
Fluorathene	10000 lbs
Clay	10000 lbs
Naphthalene	10000 lbs
Anthracene	10000 lbs
Indeno[1,2,3-cd]pyrene	10000 lbs
Benzo(a)anthracene	10000 lbs
Chrysene	10000 lbs
Benzo(a)pyrene	10000 lbs
Acenaphthene	10000 lbs
Dibenzofuran	10000 lbs
Benzo(b)fluoranthene/benzo[e]acefenantrileno	10000 lbs
Crystalline Silica (Quartz)/ Silica Sand	10000 lbs

SARA 313 (TRI Reporting)

Chemical Identity

Creosote

Fluorathene

Phenanthrene

Naphthalene

Indeno[1,2,3-cd]pyrene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene/benzo[e]acefenantrileno

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Cancer - www.P65Warnings.ca.gov



Revision Date: 04/10/2019

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Coal tar pitch

Calcium Carbonate (Limestone)

Cellulose

Creosote

Fluorathene

Phenanthrene

Naphthalene

Indeno[1,2,3-cd]pyrene

Benzo(a)anthracene

Chrysene

Benzo(a)pyrene

Benzo(b)fluoranthene/benzo[e]acefenantrileno

Crystalline Silica (Quartz)/ Silica Sand

US. Massachusetts RTK - Substance List

Chemical Identity

Coal tar pitch

Calcium Carbonate (Limestone)

Cellulose

Creosote

Fluorathene

Phenanthrene

Indeno[1,2,3-cd]pyrene

Benzo(a)anthracene

Chrysene

Benzo(a)pyrene

Benzo(b)fluoranthene/benzo[e]acefenantrileno

Crystalline Silica (Quartz)/ Silica Sand

Dibenz(a,h)anthracene

Pyrene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Coal tar pitch

Calcium Carbonate (Limestone)

Cellulose

Creosote

Fluorathene

Phenanthrene

Indeno[1,2,3-cd]pyrene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene/benzo[e]acefenantrileno

US. Rhode Island RTK

Chemical Identity

Calcium Carbonate (Limestone)

Cellulose

International regulations



Revision Date: 04/10/2019

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and : 299 g/l

exempt solvent)

VOC Method 310 : 24.00 %



Revision Date: 04/10/2019

Inventory Status:

Australia AICS:

One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List:

One or more components in this product are not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP:

One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):

One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS:

One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

Mexico INSQ:

One or more components in this product are not listed on or exempt from the Inventory.

Ontario Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

Taiwan Chemical Substance Inventory:

One or more components in this product are not listed on or exempt from the Inventory.



Revision Date: 04/10/2019

16.Other information, including date of preparation or last revision

Revision Date: 04/10/2019

Version #: 1.2

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.