SAFETY DATA SHEET

Section 1. Identification		
GHS product identifier	:	
Document product code	:	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses		

Supplier/Manufacturer

Emergency telephone	
number (with hours of	
operation)	

Section 2. Hazard(s) identification

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OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (respiratory tract) H411 - Toxic to aquatic life with long lasting effects.

RESISTO

Section 2. Hazard(s) identification

Precautionary statements

Prevention	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	 P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified (US)	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	% (w/w)	CAS number
Tar, coal	7 - 13	8007-45-2
Kaolin	5 - 10	1332-58-7
Distillates (coal tar), upper	3 - 7	65996-91-0
Crystalline silica, respirable other than powder	1 - 5	14808-60-7
Titanium dioxide	0.1 - 1	13463-67-7
Benz[a]anthracene	0.1 - 1	56-55-3
Chrysene	0.1 - 1	218-01-9
Benzo[a]pyrene	<0.1	50-32-8
Dibenz[a,h]anthracene	<0.1	53-70-3
Fluoranthene	<0.1	206-44-0
Pyrene	<0.1	129-00-0

United States: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

Canada: The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact
- : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.



Section 4. First aid measures

Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Skin contact	: Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Most important symptoms/effects, acute and delayed		
Potential acute health effects		

: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
ioms
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
ical attention and special treatment needed, if necessary
 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
: No specific treatment.
: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
1

See toxicological information (Section 11)



Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: metal oxide/oxides	
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathir apparatus (SCBA) with a full face-piece operated in positive pressure mode.	ıg

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see

Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	-	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Do not store below the following temperature: 4°C (39.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

United States

Occupational exposure limits

Ingredient name	Exposure limits
Tar, coal	ACGIH TLV (United States, 3/2020). TWA: 0.2 mg/m ³ , (as benzene soluble aerosol) 8 hours. OSHA PEL (United States, 5/2018). TWA: 0.2 mg/m ³ 8 hours. Form: Benzene soluble NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m ³ 10 hours.
Kaolin	ACGIH TLV (United States, 3/2020). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m ³ 10 hours. Form: Respirable fraction TWA: 10 mg/m ³ 10 hours. Form: Total OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
Distillates (coal tar), upper Crystalline silica, respirable other than powder	None. OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:

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Section 8. Exposure controls/personal protection

	Respirable OSHA PEL (United States, 5/2018). TWA: 50 µg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2019). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m ³ 10 hours. Form: respirable
Titanium dioxide	dust ACGIH TLV (United States, 3/2020). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Benz[a]anthracene Chrysene Benzo[a]pyrene Dibenz[a,h]anthracene Fluoranthene Pyrene	None. None. None. None. None. None. None.

<u>Canada</u>

Occupational exposure limits

Ingredient name	Exposure limits
Tar, coal	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.2 mg/m ³ , (as benzene solubles) 8 hours. CA British Columbia Provincial (Canada, 1/2020). TWA: 0.2 mg/m ³ , (as benzene-soluble aerosol) 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 0.2 mg/m ³ , (as benzene soluble aerosol) 8 hours.
Kaolin	 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable CA British Columbia Provincial (Canada, 1/2020). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. Form: Respirable dust. CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 4 mg/m³ 15 minutes. Form: respirable fraction TWA: 2 mg/m³ 8 hours. Form: respirable fraction
Crystalline silica, respirable other than powder	CA British Columbia Provincial (Canada, 5/2019).

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Section 8. Exposure controls/personal protection

	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 0.1 mg/m ³ 8 hours. Form:
	Respirable dust.
	CA Ontario Provincial (Canada, 1/2018).
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable
	fraction.
	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 0.025 mg/m ³ 8 hours. Form:
	Respirable particulate
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 0.05 mg/m ³ 8 hours. Form: respirable
	fraction
Titanium dioxide	CA British Columbia Provincial (Canada,
	1/2020).
	TWA: 10 mg/m ³ 8 hours. Form: Total dust
	TWA: 3 mg/m ³ 8 hours. Form: respirable
	fraction
	CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 10 mg/m ³ 8 hours. Form: Total dust.
	CA Alberta Provincial (Canada, 6/2018).
	8 hrs OEL: 10 mg/m ³ 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 mg/m ³ 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m ³ 15 minutes.
	TWA: 10 mg/m ³ 8 hours.
Benz[a]anthracene	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m ³ , (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m³, (measured as benzene
	solubles) 8 hours.
Chrysene	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m³, (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m ³ , (measured as benzene
	solubles) 8 hours.
Denzelelnumene	,
Benzo[a]pyrene	CA Quebec Provincial (Canada, 7/2019).
	TWAEV: 0.005 mg/m ³ 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m ³ , (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m ³ , (measured as benzene
	solubles) 8 hours.
Dibenz[a,h]anthracene	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m ³ , (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m ³ , (measured as benzene



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Section 8. Exposure controls/personal protection

	solubles) 8 hours.
Fluoranthene	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m ³ , (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m³, (measured as benzene
	solubles) 8 hours.
Pyrene	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m ³ , (measured as benzene
	solubles) 15 minutes.
	TWA: 0.2 mg/m³, (measured as benzene
	solubles) 8 hours.
Appropriate engineering	: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures,
controls	local exhaust ventilation or other engineering controls to keep worker exposure to
	airborne contaminants below any recommended or statutory limits.
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	they comply with the requirements of environmental protection legislation.
Individual protection measure	S
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before
	eating, smoking and using the lavatory and at the end of the working period.
	Appropriate techniques should be used to remove potentially contaminated clothing.
	Wash contaminated clothing before reusing. Ensure that evewash stations and safety
	showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk
	assessment indicates this is necessary to avoid exposure to liquid splashes, mists,
	gases or dusts. If contact is possible, the following protection should be worn, unless
	the assessment indicates a higher degree of protection: safety glasses with side-
	shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be
	worn at all times when handling chemical products if a risk assessment indicates this is
	necessary. Considering the parameters specified by the glove manufacturer, check
	during use that the gloves are still retaining their protective properties. It should be
	noted that the time to breakthrough for any glove material may be different for different
	glove manufacturers. In the case of mixtures, consisting of several substances, the
	protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being
	performed and the risks involved and should be approved by a specialist before
	handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected
	based on the task being performed and the risks involved and should be approved by a
	specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the
	appropriate standard or certification. Respirators must be used according to a
	respiratory protection program to ensure proper fitting, training, and other important
	aspects of use.

Section 9. Physical and chemical properties

Appearance

Appearance	
Physical state	: Liquid.
Color	: Dark gray.
Odor	: Slight petroleum.
Odor threshold	: Not available.
рН	: Neutral.
Melting/freezing point	: 0°C (32°F)
Initial boiling point and boiling range	: 100°C (212°F)
Flash point	: Not available.
Evaporation rate	: <1 (Butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: 2.34 kPa (17.551 mm Hg)
Vapor density	: <1 [Air = 1]
Relative density	: 1.01
Solubility	: Not available.
Solubility in water	: Miscible with water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Dynamic: <2000 mPa·s (<2000 cP)
Flow time (ISO 2431)	: Not available.
VOC = Volatile Organic Compound	:

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Tar, coal Fluoranthene	LD50 Dermal LD50 Dermal LD50 Oral		>7950 mg/kg 3180 mg/kg 2 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Tar, coal	Skin - Mild irritant	Human	-	72 hours 15	-
				µg Intermittent	
	Skin - Mild irritant	Rabbit	-	3 hours 5 %	-
Benzo[a]pyrene	Skin - Mild irritant	Mouse	-	14 µg	-
Pyrene	Skin - Mild irritant	Rabbit	-	24 hours 500	-
-				mg	

Sensitization

There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Tar, coal	-	1	Known to be a human carcinogen.
Titanium dioxide	-	2B	-
Benz[a]anthracene	-	2B	Reasonably anticipated to be a human carcinogen.
Chrysene	-	2B	-
Benzo[a]pyrene	-	1	Reasonably anticipated to be a human carcinogen.
Dibenz[a,h]anthracene	-	2A	Reasonably anticipated to be a human carcinogen.
Fluoranthene	-	3	-
Pyrene	-	3	-

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Crystalline silica, respirable other than powder	Category 1	inhalation	respiratory tract

Aspiration hazard

There is no data available.



Section 11. Toxicological information Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation. routes of exposure Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : No known significant effects or critical hazards. effects **Potential delayed effects** : No known significant effects or critical hazards. Long term exposure **Potential immediate** : No known significant effects or critical hazards. effects **Potential delayed effects** : No known significant effects or critical hazards. Potential chronic health effects General : Causes damage to organs through prolonged or repeated exposure. Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of exposure. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)		(gases)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Fluoranthene	2000	3180	N/A	N/A	N/A



Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide	Acute LC50 >1000000 µg/L Marine water	Fish - Fundulus heteroclitus	96 hours
Benz[a]anthracene	Acute LC50 97.5 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Benzo[a]pyrene	Acute EC50 5 µg/L Fresh water	Algae - Scenedesmus acutus	72 hours
	Acute LC50 11 mg/L Marine water	Crustaceans - Gammarus duebeni	48 hours
	Acute LC50 0.25 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Chronic NOEC 12 µg/L Fresh water	Crustaceans - Eurytemora affinis - Nauplii	21 days
Fluoranthene	Acute EC50 0.103 ug/ml Marine water	Algae - Phaeodactylum tricornutum	72 hours
	Acute EC50 45 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 5.32 µg/L Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 1.6 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.1 µg/L Marine water	Fish - Pleuronectes americanus	96 hours
	Chronic NOEC 41.7 µg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 95 µg/L Marine water	Aquatic plants - Plantae	72 hours
	Chronic NOEC 1.4 µg/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.4 µg/L Fresh water	Fish - Pimephales promelas	32 days
Pyrene	Acute LC50 0.89 µg/L Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 135.8 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	>1	-	low
Benz[a]anthracene	5.76	257.04	low
Chrysene	5.81	-	high
Benzo[a]pyrene	6.13	-	high
Dibenz[a,h]anthracene	6.75	-	high
Fluoranthene	5.16	3630.78	high
Pyrene	5.43	1513.56	high

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.



Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification	TDG Classification	IMDG	ΙΑΤΑ
UN3082	UN3082	UN3082	UN3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)
9	9	9	9
111	Ш	Ш	
Yes.	Yes.	Yes.	Yes.
	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene) 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UN3082 UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene) 9 9 Image: state	UN3082UN3082UN3082ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benz[a] anthracene, Benzo[a]pyrene)999IIIIIIIII

AERG : 171

Additional information	
DOT Classification	 Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg. <u>Reportable quantity</u> 1024.8 lbs / 465.26 kg [121.69 gal / 460.65 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
TDG Classification	 Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
IMDG	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.



Section 14. Transport information

Special precautions for user	1	Transport within user's premises: always transport in closed containers that are
		upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according	4	Not available.
to IMO instruments		

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) PAIR: Distillates (coal tar), upper; Naphthalene
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	TSCA 12(b) one-time export: Tar, coal; Distillates (coal tar), upper
	Clean Water Act (CWA) 307 : Benz[a]anthracene; Chrysene; Benz[e] acephenanthrylene; Indeno[1,2,3-cd]pyrene; Benzo[a]pyrene; Naphthalene; Benzo[ghi] perylene; Benzo[k]fluoranthene; Dibenz[a,h]anthracene; Acenaphthene; Anthracene; Fluorene; Phenanthrene; Fluoranthene; Pyrene
	Clean Water Act (CWA) 311: Naphthalene
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	
Composition/information	on ingredients

				SARA 302 TPQ SARA 304 RQ		4 RQ	
Name		%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Pyrene		≤0.00013	Yes.	1000 / 10000	-	5000	-
SARA 304 RQ	: 38714672	86.1 lbs / 17576	46147.9 k	g [4597237	′52.1 gal / 174	0243710.8 L	_]

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SARA 311/312
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Classification

: CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1



Section 15. Regulatory information

Composition/information on ingredients

Name	%	Classification
Tar, coal	≥10 - ≤25	CARCINOGENICITY - Category 1A
Distillates (coal tar), upper	≥5 - ≤10	FLAMMABLE LIQUIDS - Category 3
		CARCINOGENICITY - Category 1B
Crystalline silica, respirable	≥3 - ≤5	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
other than powder		EXPOSURE) - Category 1
Titanium dioxide	≥0.3 - ≤1	CARCINOGENICITY - Category 2
Benz[a]anthracene	≤0.12	CARCINOGENICITY - Category 1B
Chrysene	≤0.12	GERM CELL MUTAGENICITY - Category 2
-		CARCINOGENICITY - Category 1B
Benzo[a]pyrene	≤0.096	SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 1B
		CARCINOGENICITY - Category 1B
		TOXIC TO REPRODUCTION - Category 1B
Dibenz[a,h]anthracene	≤0.017	CARCINOGENICITY - Category 1B

Massachusetts	 The following components are listed: Tar, coal; Kaolin; Distillates (coal tar), upper; Crystalline silica, respirable other than powder
New York	: The following components are listed: Tar, coal
New Jersey	 The following components are listed: Tar, coal; Kaolin; Crystalline silica, respirable other than powder; Benz[a]anthracene; Chrysene
Pennsylvania	 The following components are listed: Tar, coal; Kaolin; Distillates (coal tar), upper; Crystalline silica, respirable other than powder

California Prop. 65

▲ WARNING: This product can expose you to chemicals including Crystalline silica, respirable other than powder, Titanium dioxide, Benz[a]anthracene, Chrysene, Benz[e]acephenanthrylene, Indeno[1,2,3-cd]pyrene, Benzo[a] pyrene, Naphthalene, Carbon-black extracts, Benzo[k]fluoranthene, Carbon black, non respirable, Dibenz[a,h] anthracene, Cumene, Anthracene, Phenanthrene, Fluoranthene and Pyrene, which are known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Crystalline silica, respirable other than powder	-	-
Titanium dioxide	-	-
Benz[a]anthracene	Yes.	-
Chrysene	Yes.	-
Benz[e]acephenanthrylene	Yes.	-
Indeno[1,2,3-cd]pyrene	-	-
Benzo[a]pyrene	Yes.	-
Naphthalene	Yes.	-
Carbon-black extracts	-	-
Benzo[k]fluoranthene	-	-
Carbon black, non respirable	-	-
Dibenz[a,h]anthracene	Yes.	-
Methanol	-	Yes.
Cumene	-	-
Anthracene	-	-
Phenanthrene	-	-
Fluoranthene	-	-
Pyrene	-	-



Section 15. Regulatory information

Canadian lists

Canadian NPRI

- None of the components are list
- CEPA Toxic substances
- : None of the components are listed.
- es : The following components are listed: Distillates (coal tar), upper

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Benz[a]anthracene Chrysene	POPs - Annex 3 -	Listed Listed
• •		

Inventory list

Canada	: Not determined.
United States (TSCA 8b)	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method Calculation method
	Calculation method Calculation method

Н	istory	

Date of issue/Date of

: 05/15/2021

revision	
Date of previous issue	: Not applicable
Version	: 1
Prepared by	: KMK Regulatory Services Inc.
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group



Section 16. Other information

UN = United Nations

Internal code

: 261-194

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.