

Material Safety Data Sheet

Polyguard CA-9 Mastic

1. Product and company identification

Product name	: Polyguard CA-9 Mastic
Material uses	: Not available.
Supplier/Manufacturer	: Polyguard Products 3801 South Business 45 Ennis, TX 75119 Tel: (800)541-4994
Responsible name	: Atrion Regulatory Services, Inc.
In case of emergency	: CHEMTREC, U.S. : +1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

Physical state	: Semi-liquid.
Odor	: Tar.
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview	: DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. CONTAINS MATERIAL WHICH MAY CAUSE HERITABLE GENETIC EFFECTS. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get on skin or clothing. Avoid contact with eyes. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Potential acute health effects	
Inhalation	: Slightly irritating to the respiratory system.
Ingestion	: May be harmful if swallowed.
Skin	: Irritating to skin. May cause sensitization by skin contact.
Eyes	: Irritating to eyes.
Potential chronic health effects	
Chronic effects	: Contains material that can cause target organ damage.
Carcinogenicity	: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: Contains material which may cause heritable genetic effects.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: Contains material which causes damage to the following organs: kidneys, lungs, liver, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
Over-exposure signs/symptoms	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.

2. Hazards identification

- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Medical conditions aggravated by over-exposure** : Pre-existing skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Tar, coal	8007-45-2	30 - 60
Methyl ethyl ketone	78-93-3	10 - 30
Toluene	108-88-3	10 - 30
Phenanthrene	85-01-8	1 - 5
Fluoranthene	206-44-0	1 - 5
Naphthalene	91-20-3	0.1 - 1
Benz[a]anthracene	56-55-3	0.1 - 1
Chrysene	218-01-9	0.1 - 1
Benzo[a]pyrene	50-32-8	0.1 - 1
Indeno[1,2,3-cd]pyrene	193-39-5	0.1 - 1
Benz[e]acephenanthrylene	205-99-2	0.1 - 1
Benzo[j]fluoranthene	205-82-3	0.1 - 1
Benzo[k]fluoranthene	207-08-9	0.1 - 1
Dibenzo[b,def]chrysene	189-64-0	0.1 - 1
Benzo(r,s,t)pentaphene	189-55-9	0.1 - 1
Naphtho[1,2,3,4-def]chrysene	192-65-4	0.1 - 1

Canada

Name	CAS number	%
Tar, coal	8007-45-2	30 - 60
Methyl ethyl ketone	78-93-3	10 - 30
Toluene	108-88-3	10 - 30
Phenanthrene	85-01-8	1 - 5
Fluoranthene	206-44-0	1 - 5
Naphthalene	91-20-3	0.1 - 1
Benz[a]anthracene	56-55-3	0.1 - 1
Chrysene	218-01-9	0.1 - 1
Benzo[a]pyrene	50-32-8	0.1 - 1
Indeno[1,2,3-cd]pyrene	193-39-5	0.1 - 1
Benz[e]acephenanthrylene	205-99-2	0.1 - 1
Benzo[j]fluoranthene	205-82-3	0.1 - 1
Benzo[k]fluoranthene	207-08-9	0.1 - 1
Dibenzo[b,def]chrysene	189-64-0	0.1 - 1
Benzo(r,s,t)pentaphene	189-55-9	0.1 - 1
Naphtho[1,2,3,4-def]chrysene	192-65-4	0.1 - 1

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.

4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Protection of first-aiders** : 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.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

- Flammability of the product** : Extremely flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

- Personal precautions** : 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- 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).
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. 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). Use spark-proof tools and explosion-proof equipment. 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.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

8 . Exposure controls/personal protection

	United States
Product name	Exposure limits
Methyl ethyl ketone	ACGIH TLV (United States, 1/2007). STEL: 885 mg/m ³ 15 minute(s). TWA: 590 mg/m ³ 8 hour(s). NIOSH REL (United States, 12/2001). STEL: 885 mg/m ³ 15 minute(s). TWA: 590 mg/m ³ 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 590 mg/m ³ 8 hour(s).
Toluene	NIOSH REL (United States, 12/2001). STEL: 560 mg/m ³ 15 minute(s). TWA: 375 mg/m ³ 10 hour(s). OSHA PEL Z2 (United States, 11/2006). AMP: 500 ppm 10 minute(s). CEIL: 300 ppm TWA: 200 ppm 8 hour(s). ACGIH TLV (United States, 1/2007). TWA: 20 ppm 8 hour(s).
Phenanthrene	OSHA PEL (United States, 11/2006). TWA: 0.2 mg/m ³ 8 hour(s). Form: Benzene soluble
Naphthalene	ACGIH TLV (United States, 1/2007). STEL: 79 mg/m ³ 15 minute(s). TWA: 52 mg/m ³ 8 hour(s). NIOSH REL (United States, 12/2001). STEL: 75 mg/m ³ 15 minute(s). TWA: 50 mg/m ³ 10 hour(s). OSHA PEL (United States, 11/2006). TWA: 50 mg/m ³ 8 hour(s).
Chrysene	OSHA PEL (United States, 11/2006). TWA: 0.2 mg/m ³ 8 hour(s). Form: Benzene soluble
Benzo[a]pyrene	OSHA PEL (United States, 11/2006).

8 . Exposure controls/personal protection

TWA: 0.2 mg/m³ 8 hour(s). Form: Benzene soluble

Canada

Product name

Methyl ethyl ketone

Exposure limits

CA Alberta Provincial (Canada, 10/2006).

8 hrs OEL: 200 ppm 8 hour(s).

15 min OEL: 300 ppm 15 minute(s).

CA British Columbia Provincial (Canada, 7/2007).

TWA: 50 ppm 8 hour(s).

STEL: 100 ppm 15 minute(s).

CA Ontario Provincial (Canada, 3/2007).

TWAEV: 200 ppm 8 hour(s).

STEV: 300 ppm 15 minute(s).

CA Quebec Provincial (Canada, 12/2006).

TWAEV: 50 ppm 8 hour(s).

STEV: 100 ppm 15 minute(s).

Toluene

CA Alberta Provincial (Canada, 10/2006). Skin

8 hrs OEL: 50 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 7/2007).

TWA: 20 ppm 8 hour(s).

CA Ontario Provincial (Canada, 3/2007).

TWAEV: 50 ppm 8 hour(s).

CA Quebec Provincial (Canada, 12/2006). Skin

TWAEV: 50 ppm 8 hour(s).

Naphthalene

CA Alberta Provincial (Canada, 10/2006). Skin

15 min OEL: 15 ppm 15 minute(s).

8 hrs OEL: 10 ppm 8 hour(s).

CA British Columbia Provincial (Canada, 7/2007). Skin

TWA: 10 ppm 8 hour(s).

STEL: 15 ppm 15 minute(s).

CA Ontario Provincial (Canada, 3/2007).

TWAEV: 10 ppm 8 hour(s).

STEV: 15 ppm 15 minute(s).

CA Quebec Provincial (Canada, 12/2006).

TWAEV: 10 ppm 8 hour(s).

STEV: 15 ppm 15 minute(s).

Chrysene

ACGIH TLV (Canada, 8/1997).

TWA: 0.2 mg/m³ 8 hour(s). Form: Benzene soluble

Benzo[a]pyrene

CA Quebec Provincial (Canada, 12/2006).

TWAEV: 0.005 mg/m³ 8 hour(s).

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 eyewash stations and safety showers are close to the workstation location.

Personal protection

8 . Exposure controls/personal protection

- Eyes** : Splash goggles.
Skin : Overall.
Respiratory : A respirator is not needed under normal and intended conditions of use.
Hands : Natural rubber (latex).

Personal protective equipment (Pictograms) :



- HMIS Code/Personal protective equipment** : B

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

- Physical state** : Semi-liquid.
Flash point : Closed cup: -12.2°C (10°F) [Tagliabue.]
Flammable limits : Lower: 2%
Odor : Tar.
Boiling/condensation point : 79.4°C (174.9°F)
Relative density : 1.04
Vapor pressure : 9.3 kPa (70 mm Hg)
Volatility : 40.4% (v/v)
Evaporation rate : 5.7 (Ether (anhydrous). = 1)
VOC : 402 (g/l).
Solubility : Insoluble in the following materials: cold water and hot water.

10 . Stability and reactivity

- Stability** : The product is stable.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid exposure - obtain special instructions before use.
Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Conditions of reactivity : Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Tar, coal	Rabbit	>7950 mg/kg	LD50 Dermal	-
Toluene	Rabbit	14100 uL/kg	LD50 Dermal	-
	Rat	636 mg/kg	LD50 Oral	-
Methyl ethyl ketone	Rabbit	6480 mg/kg	LD50 Dermal	-
	Rat	2737 mg/kg	LD50 Oral	-
Phenanthrene	Rat	1.8 g/kg	LD50 Oral	-
Fluoranthene	Rabbit	3180 mg/kg	LD50 Dermal	-
	Rat	2 g/kg	LD50 Oral	-
Naphthalene	Rabbit	>20 g/kg	LD50 Dermal	-
	Rat	>2500 mg/kg	LD50 Dermal	-
	Rat	>490 mg/kg	LD50 Oral	-

- Inhalation** : Slightly irritating to the respiratory system.
- Ingestion** : May be harmful if swallowed.
- Skin** : Irritating to skin. May cause sensitization by skin contact.
- Eyes** : Irritating to eyes.

Carcinogenicity

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Tar, coal	-	1	-	-	-	-
Toluene	A4	3	-	-	-	-
Phenanthrene	-	3	-	-	-	-
Fluoranthene	-	3	-	-	Possible	-
Naphthalene	A4	2B	-	None.	Possible	-
Benz[a]anthracene	A2	2A	-	-	Possible	-
chrysene	A3	3	-	+	-	-
Benzo[a]pyrene	A2	2A	-	-	Possible	-
Indeno[1,2,3-cd]pyrene	-	2B	-	-	Possible	-
Benz[e]acephenanthrylene	A2	2B	-	-	Possible	-
Benzo[j]fluoranthene	-	2B	-	-	Possible	-
Benzo[k]fluoranthene	-	2B	-	-	Possible	-
Dibenzo[b,def]chrysene	-	2B	-	-	Possible	-
Benzo(r,s,t)pentaphene	-	2B	-	-	Possible	-
Naphtho[1,2,3,4-def]chrysene	-	2B	-	-	Possible	-

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposure	Result
Tar, coal	-	Daphnia	48 hours	Acute EC50 0.048 to 0.5 ppm
	-	Fish	96 hours	Acute LC50 0.43 to 0.5 ppm
	-	Fish	96 hours	Acute LC50 0.64 to 0.7 ppm
Toluene	-	Daphnia	48 hours	Acute EC50 19600 ug/L
	-	Daphnia	48 hours	Acute EC50 6000 ug/L
	-	Crustaceans	48 hours	Acute LC50 15.5 ppm
	-	Fish	96 hours	Acute LC50 15.53 to 17.16 mg/L
	-	Fish	96 hours	Acute LC50 13 to 15 mg/L
	-	Fish	96 hours	Acute LC50 7.3 ul/L
Methyl ethyl ketone	-	Fish	96 hours	Acute LC50 3220 to 3320 mg/l
	-	Daphnia	48 hours	Acute LC50 >520000 ug/L
Phenanthrene	-	Daphnia	48 hours	Acute EC50 0.117 mg/L
	-	Fish	96 hours	Acute EC50 0.05 mg/L
	-	Fish	96 hours	Acute EC50 0.049 mg/L

12 . Ecological information

Fluoranthene	-	Daphnia	48 hours	Acute EC50 198.91 ug/L
	-	Daphnia	48 hours	Acute EC50 212 to 243 ug/L
	-	Fish	96 hours	Acute LC50 0.234 mg/L
	-	Daphnia	48 hours	Acute EC50 13.13 ug/L
	-	Daphnia	48 hours	Acute LC50 45 ug/L
	-	Daphnia	48 hours	Acute LC50 1.6 to 2 ug/L
	-	Fish	96 hours	Acute LC50 0.9 ug/L
Naphthalene	-	Fish	96 hours	Acute LC50 >0.8 ug/L
	-	Fish	96 hours	Acute LC50 0.1 to 0.1 ug/L
	-	Daphnia	48 hours	Chronic NEL 50 ug/L
	-	Daphnia	48 hours	Chronic NOEC 85 ug/L
	-	Daphnia	48 hours	Acute EC50 1.96 mg/L
Benzo[a]pyrene	-	Fish	96 hours	Acute LC50 2.25 mg/L
	-	Daphnia	48 hours	Acute LC50 17.4 mg/L
	-	Fish	96 hours	Acute LC50 2.1 ppm
	-	Crustaceans	48 hours	Acute LC50 2.6 to 2.89 ppm
	-	Daphnia	48 hours	Acute LC50 0.25 mg/L

13 . Disposal considerations





Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

AERG : 127

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1139	COATING SOLUTION	3	II		-
TDG Classification	UN1139	COATING SOLUTION	3	II		-
IMDG Class	UN1139	COATING SOLUTION	3	II		Marine pollutant
IATA-DGR Class	UN1139	COATING SOLUTION	3	II		-

PG* : Packing group

15 . Regulatory information

United States

HCS Classification

: Flammable liquid
Irritating material
Sensitizing material
Carcinogen
Target organ effects

U.S. Federal regulations

: TSCA 4(a) final test rules: Naphthalene; Biphenyl; Acetone; Methyl ethyl ketone
TSCA 8(a) CAIR: Phenanthrene; Pyrene
TSCA 8(a) PAIR: Naphthalene; Biphenyl; Amorphous silica
United States inventory (TSCA 8b): All components are listed or exempted.
TSCA 12(b) one-time export: Naphthalene; Biphenyl; Acetone; Methyl ethyl ketone
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Tar, coal; Phenanthrene; Fluoranthene; Methyl ethyl ketone; Toluene
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Tar, coal: Immediate (acute) health hazard, Delayed (chronic) health hazard; Phenanthrene: Immediate (acute) health hazard, Delayed (chronic) health hazard; Fluoranthene: Delayed (chronic) health hazard; Methyl ethyl ketone: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: Phenanthrene; Fluoranthene; Pyrene; Anthracene; Benz[a]anthracene; Chrysene; Acenaphthene; Benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Benz[e]acephenanthrylene; Benzo[j]fluoranthene; Benzo[k]fluoranthene; Dibenz[o,b,def]chrysene; Naphthalene; Benzo(r,s,t)pentaphene; Naphtho[1,2,3,4-def]chrysene; Dibenz[a,h]anthracene; Toluene; Vinyl chloride
Clean Water Act (CWA) 311: Naphthalene; Quinoline; Toluene; Vinyl acetate
Clean Air Act (CAA) 112 accidental release prevention: Vinyl acetate; Vinyl chloride
Clean Air Act (CAA) 112 regulated flammable substances: Vinyl chloride
Clean Air Act (CAA) 112 regulated toxic substances: Vinyl acetate

SARA 313

Form R - Reporting requirements

Product name	CAS number	Concentration
Methyl ethyl ketone	78-93-3	10 - 30
Toluene	108-88-3	10 - 30
Phenanthrene	85-01-8	1 - 5
Fluoranthene	206-44-0	1 - 5
Naphthalene	91-20-3	0.1 - 1

Supplier notification

Methyl ethyl ketone	78-93-3	10 - 30
Toluene	108-88-3	10 - 30
Phenanthrene	85-01-8	1 - 5
Fluoranthene	206-44-0	1 - 5
Naphthalene	91-20-3	0.1 - 1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

: **Connecticut Carcinogen Reporting:** None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: Tar, coal; Methyl

15 . Regulatory information

ethyl ketone; Toluene; Phenanthrene; Fluoranthene

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: The following components are listed: Tar, coal; Methyl ethyl ketone; Toluene; Phenanthrene; Fluoranthene; Naphthalene; Benz[a]anthracene; Chrysene; Benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Benz[e]acephenanthrylene; Benzo[j]fluoranthene; Benzo[k]fluoranthene; Dibenz[b,def]chrysene; Benzo(r,s,t)pentaphene; Naphtho[1,2,3,4-def]chrysene

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.

New York Acutely Hazardous Substances: The following components are listed: Tar, coal; Methyl ethyl ketone; Toluene; Phenanthrene; Fluoranthene; Naphthalene; Benz[a]anthracene; Chrysene; Benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Benz[e]acephenanthrylene; Benzo[k]fluoranthene; Benzo(r,s,t)pentaphene

New York Toxic Chemical Release Reporting: None of the components are listed.

Pennsylvania RTK Hazardous Substances: The following components are listed: Tar, coal; Methyl ethyl ketone; Toluene; Phenanthrene; Fluoranthene; Naphthalene; Benz[a]anthracene; Chrysene; Benzo[a]pyrene; Indeno[1,2,3-cd]pyrene; Benz[e]acephenanthrylene; Benzo[j]fluoranthene; Benzo[k]fluoranthene; Dibenz[b,def]chrysene; Benzo(r,s,t)pentaphene; Naphtho[1,2,3,4-def]chrysene

Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

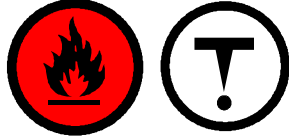
Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Phenanthrene	Yes.	No.	No.	No.
Fluoranthene	Yes.	No.	No.	No.
Pyrene	Yes.	No.	No.	No.
Naphthalene	Yes.	No.	Yes.	No.
Anthracene	Yes.	No.	No.	No.
Benz[a]anthracene	Yes.	No.	0.033 µg/day (ingestion)	No.
Chrysene	Yes.	No.	0.35 µg/day (ingestion)	No.
Benzo[a]pyrene	Yes.	No.	Yes.	No.
Indeno[1,2,3-cd]pyrene	Yes.	No.	No.	No.
Benz[e]acephenanthrylene	Yes.	No.	0.096 µg/day (ingestion)	No.
Carbazole	Yes.	No.	Yes.	No.
Benzo[j]fluoranthene	Yes.	No.	0.11 µg/day (ingestion)	No.
Benzo[k]fluoranthene	Yes.	No.	No.	No.
Dibenz[b,def]chrysene	Yes.	No.	0.0054 µg/day (ingestion)	No.
Benzo(r,s,t)pentaphene	Yes.	No.	0.005 µg/day (ingestion)	No.
Naphtho[1,2,3,4-def]chrysene	Yes.	No.	No.	No.
Dibenz[a,h]anthracene	Yes.	No.	Yes.	No.
Vinyl acetate	Yes.	No.	No.	No.
Quinoline	Yes.	No.	No.	No.
Vinyl chloride	Yes.	No.	Yes.	No.

15 . Regulatory information

Canada

WHMIS (Canada)

- : Class B-2: Flammable liquid
- Class D-2A: Material causing other toxic effects (Very toxic).
- Class D-2B: Material causing other toxic effects (Toxic).



- Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

International lists

- : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

16 . Other information

Label requirements

- : EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. CONTAINS MATERIAL WHICH MAY CAUSE HERITABLE GENETIC EFFECTS.

Hazardous Material Information System (U.S.A.)

:

HAZARD RATINGS

Health	*	2
Fire hazard		3
Physical Hazard		0
Personal protection		B

4- Extreme
3- Serious
2- Moderate
1- Slight
0- Minimal

See section 8 for more detailed information on personal protection.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

:



References

- : ANSI Z400.5, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

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Version

: 1

16 . Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. 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.