



Formaldehyde	50-00-0	<0.1
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#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. Consult a physician.
<b>Inhalation</b>	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Consult a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.			
<b>Flash Point</b>	> 200°F / > 93.3°C (Coal Tar)			
<b>Suitable Extinguishing Media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.			
<b>Unsuitable Extinguishing Media</b>	Do not scatter spilled material with high pressure water streams.			
<b>Hazardous Combustion Products</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ).			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	None			
<b>Sensitivity to Static Discharge</b>	None			
<b>Specific Hazards Arising from the Chemical</b>	During fire conditions, vapors and decomposition products may be released, forming flammable/explosive mixtures in air.			
<b>Protective Equipment and Precautions for Firefighters</b>	Avoid inhalation of material or combustion by-products. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>NFPA</b>	<b>Health Hazard 1</b>	<b>Flammability 2</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2*</b>	<b>Flammability 2</b>	<b>Physical Hazard 0</b>	<b>Personal Protection X</b>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing.
<b>Environmental Precautions</b>	Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Dike far ahead of liquid spill for later disposal.
<b>Methods for Cleaning Up</b>	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

#### 7. HANDLING AND STORAGE

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<b>Handling</b>	Wear personal protective equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. To reduce sun sensitivity a sun-blocking lotion (SPF+15) can also be applied prior to application of a protective cream. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
<b>Storage</b>	Keep containers tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Do not store in direct sunlight or in temperatures exceeding 120°F (48.9°C).

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Coal tar 8007-45-2		TWA: 0.2 mg/m <sup>3</sup> benzene soluble fraction TWA: 150 µg/m <sup>3</sup> (vacated) TWA: 0.2 mg/m <sup>3</sup> benzene soluble fraction	TWA: 0.2 mg/m <sup>3</sup> Benzene soluble fraction
Kaolin 1332-58-7	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust

*OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.*

**Other Exposure Guidelines**                      Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures**                      Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

**Eye/Face Protection**

Tightly fitting safety goggles.

**Skin and Body Protection**

Chemical resistant apron. Boots.

**Respiratory Protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

### **Hygiene Measures**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Brown.	<b>Odor</b>	Slight, Tar like.
<b>Odor Threshold</b>	No information available.	<b>Physical State</b>	Liquid.
<b>pH</b>	7.0 - 9.0		
<b>Flash Point</b>	> 200°F / > 93.3°C (Coal Tar)	<b>Autoignition Temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.	<b>Boiling Point/Boiling Range</b>	100°C / 212°F
<b>Melting Point/Range</b>	No information available.		
<b>Flammability Limits in Air</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Specific Gravity</b>	1.3	<b>Water Solubility</b>	Partly soluble.
<b>Solubility</b>	No information available.	<b>Evaporation Rate</b>	No information available.
<b>Vapor Pressure</b>	No data available.	<b>Vapor Density</b>	No data available.
<b>EPA VOC (g/l)</b>	49		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Strong oxidizing agents.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Do not freeze.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Polynuclear aromatic hydrocarbons (PNAs)
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90 mL/kg ( Rat )	-	-
Kaolin	> 5 g/kg (Rat)		

### Chronic Toxicity

**Chronic Toxicity** IARC classified coal tar pitch as a Class 1 Human Carcinogen: There is sufficient evidence in humans for the carcinogenicity of occupational exposures during paving and roofing with coal-tar pitch. There is sufficient evidence in experimental animals for the carcinogenicity of coal-tar pitch.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Coal tar		Group 2A Group 1	Known	X
Acrylamide	A3	Group 2A	Reasonably Anticipated	
Formaldehyde	A2	Group 1	Reasonably Anticipated	X

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Target Organ Effects** Respiratory system. Central nervous system (CNS).

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Acrylamide		LC50 96 h: 103 - 115 mg/L flow-through (Pimephales promelas) LC50 96 h: 137 - 191 mg/L static (Oncorhynchus mykiss) LC50 96 h: 74 - 150 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 81 - 150 mg/L flow-through (Lepomis macrochirus) LC50 96 h: = 124 mg/L static (Pimephales promelas)		EC50 48 h: = 98 mg/L (Daphnia magna) EC50 48 h: = 98 mg/L Flow through (Daphnia magna)
Formaldehyde	-	LC50 96 h: 0.032 - 0.226 mL/L flow-through (Oncorhynchus mykiss) LC50 96 h: 100 - 136 mg/L static (Oncorhynchus mykiss) LC50 96 h: 22.6 - 25.7 mg/L flow-through (Pimephales promelas) LC50 96 h: 23.2 - 29.7 mg/L static (Pimephales promelas) LC50 96 h: = 1510 µg/L static (Lepomis macrochirus) LC50 96 h: = 41 mg/L static (Brachydanio rerio)	EC50 = 1.2 mg/L 1 h EC50 = 16.5 mg/L 30 min EC50 = 3.7 mg/L 5 h EC50 = 5.39 mg/L 72 h EC50 = 6.81 mg/L 25 min EC50 = 7.26 mg/L 15 min EC50 = 9.0 mg/L 5 min	EC50 48 h: 11.3 - 18 mg/L Static (Daphnia magna) LC50 48 h: = 2 mg/L (Daphnia magna)

Chemical Name	Log Pow
Acrylamide	-1.24
Formaldehyde	0.35

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated Packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Do not re-use empty containers. Dispose of in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Coal tar - 8007-45-2		Included in waste stream: K060		
Acrylamide - 79-06-1	U007			
Formaldehyde - 50-00-0	U122	Included in waste streams: K009, K010, K038, K040, K156, K157		U122

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

Chemical Name	California Hazardous Waste
Formaldehyde	Toxic Ignitable

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Coal tar	8007-45-2	Carcinogen
Formaldehyde	50-00-0	Carcinogen
N-Methylolacrylamide	924-42-5	Carcinogen

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Coal tar	X	X	X	X	X
Kaolin	X	X	X		X

### International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Kaolin		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>

### Canada

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

#### WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



## 16. OTHER INFORMATION

**Prepared By** Product Stewardship  
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**Revision Note** Initial Release.

#### General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**