

# SAFETY DATA SHEET

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name C105651MED

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Lights, Fluorescent

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name Garvin Industries

Supplier Address 3700 Sandra St  
Franklin Park  
Illinois  
60131  
US

Supplier Phone Number Phone:847-455-0188  
Fax:847-455-0334

Supplier Email robertd@garvinindustries.com

### Emergency telephone number

Company Emergency Phone Number 847-455-0188

## 2. HAZARDS IDENTIFICATION

### Classification


This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a CFL bulb and as such does not require an MSDS per the OSHA hazard communication standard unless ruptured. The hazards indicated are for a ruptured CFL bulb.

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 1



Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal word</b>	<b>Danger</b>
<b>Hazard Statements</b> Fatal if swallowed Fatal in contact with skin Fatal if inhaled May cause an allergic skin reaction Suspected of causing genetic defects May cause cancer May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure	
	
This product is an article which contains a chemical substance. Safety information is given for exposure to the article as sold. Intended use of the product should not result in exposure to the chemical substance. This is a CFL bulb. In case of rupture: the above hazards exist.	
<b>Appearance</b> Translucent White	<b>Physical state</b> Solid containing liquid Solid
	<b>Odor</b> Odorless

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not get in eyes, on skin, or on clothing  
 Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see supplemental first aid instructions on this label)

**Skin**

IF ON SKIN: Gently wash with plenty of soap and water

Immediately call a POISON CENTER or doctor/physician  
 Remove/Take off immediately all contaminated clothing  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a POISON CENTER or doctor/physician

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Rinse mouth

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

80 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Causes mild skin irritation  
 Very toxic to aquatic life with long lasting effects  
 Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%	Trade Secret
Octabromobiphenyl	27858-07-7	3 - 7	*
Hexabromobiphenyl	36355-01-8	3 - 7	*
Decabromobiphenyl	13654-09-6	3 - 7	*
1,1'-Biphenyl, nonabromo-	27753-52-2	3 - 7	*
1,1'-Biphenyl, 3-bromo-	2113-57-7	3 - 7	*
Mercury	7439-97-6	1 - 5	*
Lead	7439-92-1	1 - 5	*
Chromium (VI)	18540-29-9	1 - 5	*
Cadmium and compounds (as Cd)	7440-43-9	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**First aid measures**

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<b>General Advice</b>	First aid is upon rupture of sealed CFL bulb.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Do not breathe dust. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed**

<b>Most Important Symptoms and Effects</b>	Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness. Severe exposures can lead to shock, circulatory collapse, and death.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### **Specific hazards arising from the chemical**

Product is or contains a sensitizer. May cause sensitization by skin contact.

#### **Uniform Fire Code**

Sensitizer: Solid

### **Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor or mist.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

### **Methods and material for containment and cleaning up**

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

In case of rupture: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials.

#### Incompatible Products

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mercury 7439-97-6	TWA: 0.025 mg/m <sup>3</sup> TWA: 0.025 mg/m <sup>3</sup> Hg S*	(vacated) TWA: 0.05 mg/m <sup>3</sup> vapor (vacated) STEL: 0.03 mg/m <sup>3</sup> (vacated) S* (vacated) Ceiling: 0.1 mg/m <sup>3</sup> (vacated) Ceiling: 0.1 mg/m <sup>3</sup> Hg Ceiling: 0.1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> IDLH: 10 mg/m <sup>3</sup> Hg Ceiling: 0.1 mg/m <sup>3</sup> Ceiling: 0.1 mg/m <sup>3</sup> Hg TWA: 0.05 mg/m <sup>3</sup> vapor TWA: 0.05 mg/m <sup>3</sup> except Organo alkyls Hg vapor
Lead 7439-92-1	TWA: 0.05 mg/m <sup>3</sup>	TWA: 50 µg/m <sup>3</sup> TWA: 50 µg/m <sup>3</sup> Pb Action Level: 30 µg/m <sup>3</sup> Poison, See 29 CFR 1910.1025 Action Level: 30 µg/m <sup>3</sup> Pb Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m <sup>3</sup> TWA: 0.050 mg/m <sup>3</sup>
Chromium (VI) 18540-29-9	-	TWA: 5 µg/m <sup>3</sup> Action Level: 2.5 µg/m <sup>3</sup> Action Level: 2.5 µg/m <sup>3</sup> Cr	
Cadmium and compounds (as Cd) 7440-43-9	TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup> respirable fraction TWA: 0.01 mg/m <sup>3</sup> Cd TWA: 0.002 mg/m <sup>3</sup> Cd respirable fraction	TWA: 0.1 mg/m <sup>3</sup> fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 0.2 mg/m <sup>3</sup> dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 5 µg/m <sup>3</sup> Action Level: 2.5 µg/m <sup>3</sup> Action Level: 2.5 µg/m <sup>3</sup> Cd (vacated) STEL: 0.3 ppm fume Ceiling: 0.3 mg/m <sup>3</sup> fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect Ceiling: 0.6 mg/m <sup>3</sup> dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect	IDLH: 9 mg/m <sup>3</sup> dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits 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)

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

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

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves.

**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** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace. For environmental protection, remove and wash all contaminated protective equipment before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical state</b>	Solid containing liquid, Solid	<b>Odor</b>	Odorless
<b>Appearance</b>	Translucent White	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	No information available	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	

<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No data available	
<b>Oxidizing properties</b>	No data available	

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Excessive heat.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture:.

**Inhalation**

Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components).

**Eye contact**

Specific test data for the substance or mixture is not available.

**Skin contact**

Specific test data for the substance or mixture is not available. Fatal in contact with skin. (based on components).

**Ingestion**

Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on components).

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Octabromobiphenyl 27858-07-7	= 2000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	-
Hexabromobiphenyl 36355-01-8	= 21500 mg/kg ( Rat )	-	-
Cadmium and compounds (as Cd) 7440-43-9	= 1140 mg/kg ( Rat )	-	= 25 mg/m <sup>3</sup> ( Rat ) 30 min

**Information on toxicological effects**



**Symptoms** Coughing and/ or wheezing. Difficulty in breathing. Itching. Rashes. Hives.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause sensitization by skin contact.

**Mutagenic Effects** Contains a known or suspected mutagen.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Octabromobiphenyl 27858-07-7		Group 2A	Reasonably Anticipated	X
Hexabromobiphenyl 36355-01-8		Group 2A	Reasonably Anticipated	X
Decabromobiphenyl 13654-09-6		Group 2A	Reasonably Anticipated	X
1,1'-Biphenyl, nonabromo- 27753-52-2		Group 2A	Reasonably Anticipated	X
Mercury 7439-97-6		Group 3		
Lead 7439-92-1	A3	Group 2A	Reasonably Anticipated	X
Chromium (VI) 18540-29-9		Group 1	Known	X
Cadmium and compounds (as Cd) 7440-43-9	A2	Group 1	Known	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

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Product is or contains a chemical which is a known or suspected reproductive hazard.

**Developmental Toxicity**  
**STOT - single exposure** Contains ingredients that have suspected developmental hazards.  
No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

**Chronic Toxicity** Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. Contains a known or suspected carcinogen. Possible risk of irreversible effects. Avoid repeated exposure. Prolonged exposure may cause chronic effects. Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system.

**Target Organ Effects** Respiratory system. Systemic Toxicity. Reproductive System. Skin. May affect the genetic

material in germ cells (sperm and eggs). Eyes. Gastrointestinal tract (GI). Blood. May damage the unborn child.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

49.00 mg/kg

**ATEmix (dermal)**

50.00 mg/kg

**ATEmix (inhalation-gas)**

495.00 ppm

**ATEmix (inhalation-dust/mist)**

0.25 mg/l

**ATEmix (inhalation-vapor)**

2.45 ATEmix

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Mercury 7439-97-6		96h LC50: = 0.18 mg/L (Cyprinus carpio) 96h LC50: = 0.9 mg/L (Oryzias latipes) 96h LC50: = 0.16 mg/L (Cyprinus carpio) 96h LC50: = 0.5 mg/L (Cyprinus carpio)		96h EC50: = 5.0 µg/L
Lead 7439-92-1		96h LC50: = 0.44 mg/L (Cyprinus carpio) 96h LC50: = 1.17 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.32 mg/L (Oncorhynchus mykiss)		48h EC50: = 600 µg/L
Chromium (VI) 18540-29-9		96h LC50: = 36.2 mg/L (Pimephales promelas) 96h LC50: = 7.6 mg/L (Oncorhynchus mykiss)		24h EC50: = 435 µg/L
Cadmium and compounds (as Cd) 7440-43-9		96h LC50: = 0.003 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.006 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.002 mg/L (Cyprinus carpio) 96h LC50: = 4.26 mg/L (Cyprinus carpio) 96h LC50: = 0.24 mg/L (Cyprinus carpio) 96h LC50: = 0.016 mg/L (Oryzias latipes) 96h LC50: = 21.1 mg/L (Lepomis macrochirus) 96h LC50: 0.0004 - 0.003 mg/L (Pimephales promelas)		48h EC50: = 0.0244 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available

### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number** D009 D006

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Chromium (VI) 18540-29-9			<p>Toxic waste waste number F019</p> <p>Waste description: Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. Wastewater treatment sludges from the manufacturing of motor vehicles using a zinc phosphating process will not be subject to this listing at the point of generation if the wastes are not placed outside on the land prior to shipment to a landfill for disposal and are either: disposed in a Subtitle D municipal or industrial landfill unit that is equipped with a single clay liner and is permitted, licensed or otherwise authorized by the state or disposed in a landfill unit subject to, or otherwise meeting, the landfill requirements in § 258.40, § 264.301 or § 265.301. For the purposes of this listing, motor vehicle manufacturing is defined in paragraph (b)(4)(i) of this section and (b)(4)(ii) of this section describes the recordkeeping requirements for motor vehicle manufacturing facilities.</p>	<p>Toxic waste waste number K050</p> <p>Waste description: Heat exchanger bundle cleaning sludge from the petroleum refining industry.</p>

**California Hazardous Waste Codes** M003

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

Chemical name	California Hazardous Waste
Mercury	Toxic



7439-97-6	
Lead 7439-92-1	Toxic
Chromium (VI) 18540-29-9	Toxic Corrosive Ignitable

## 14. TRANSPORT INFORMATION

<b>DOT</b>	NOT REGULATED
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b>IMDG/IMO</b>	Not regulated
<b>Hazard Class</b>	N/A
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Octabromobiphenyl - 27858-07-7	27858-07-7	3 - 7	0.1
Hexabromobiphenyl - 36355-01-8	36355-01-8	3 - 7	0.1
Decabromobiphenyl - 13654-09-6	13654-09-6	3 - 7	0.1
1,1'-Biphenyl, nonabromo- - 27753-52-2	27753-52-2	3 - 7	0.1
Mercury - 7439-97-6	7439-97-6	1 - 5	10
Lead - 7439-92-1	7439-92-1	1 - 5	0.1
Chromium (VI) - 18540-29-9	18540-29-9	1 - 5	0.1



Cadmium and compounds (as Cd) - 7440-43-9	7440-43-9	1 - 5	0.1
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**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Mercury 7439-97-6		X	X	
Lead 7439-92-1		X	X	
Chromium (VI) 18540-29-9		X		
Cadmium and compounds (as Cd) 7440-43-9		X	X	

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Mercury 7439-97-6	1 lb		RQ 1 lb final RQ RQ 0.454 kg final RQ
Lead 7439-92-1	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Chromium (VI) 18540-29-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ
Cadmium and compounds (as Cd) 7440-43-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
1,1'-Biphenyl, nonabromo- - 27753-52-2	Carcinogen Developmental
Octabromobiphenyl - 27858-07-7	Carcinogen Developmental
Hexabromobiphenyl - 36355-01-8	Carcinogen Developmental
Decabromobiphenyl - 13654-09-6	Carcinogen Developmental
Chromium (VI) - 18540-29-9	Carcinogen Developmental Female Reproductive Male Reproductive
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Mercury - 7439-97-6	Developmental
Cadmium and compounds (as Cd) - 7440-43-9	Carcinogen Developmental Male Reproductive



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

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
1,1'-Biphenyl, nonabromo- 27753-52-2			X	X	X
Octabromobiphenyl 27858-07-7		X	X	X	X
Hexabromobiphenyl 36355-01-8		X	X	X	X
Decabromodiphenyl oxide 1163-19-5	X	X	X	X	
Decabromobiphenyl 13654-09-6		X	X	X	X
Chromium (VI) 18540-29-9			X	X	X
Lead 7439-92-1	X	X	X	X	X
Mercury 7439-97-6	X	X	X	X	X
Cadmium and compounds (as Cd) 7440-43-9	X	X	X	X	X

**International Regulations****Mexico****National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Mercury 7439-97-6 ( 1 - 5 )		Mexico: TWA 0.05 mg/m <sup>3</sup>
Lead 7439-92-1 ( 1 - 5 )	A3	Mexico: TWA= 0.15 mg/m <sup>3</sup>
Chromium (VI) 18540-29-9 ( 1 - 5 )	A1	Mexico: TWA 0.5 mg/m <sup>3</sup>
Cadmium and compounds (as Cd) 7440-43-9 ( 1 - 5 )	A2	Mexico: TWA 0.01 mg/m <sup>3</sup> Mexico: TWA 0.002 mg/m <sup>3</sup>

A1 - Confirmed Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Confirmed Animal Carcinogen

Mexico - Occupational Exposure Limits - Carcinogens

**Canada****WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

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**End of Safety Data Sheet**