Safety Data Sheet

Revision Date: 02-10-2016
Product Code: 3360-001

1. IDENTIFICATION

Product Name	**CHEM-O-GARD I EPOXY COATING BLACK**
Product Code	3360-001
Document ID	G3360-001
Revision Number	1
Prior Version Date	None
Intended Use	Industrial Maintenance Coating
Restrictions On Use	For Industrial Use Only
Chemical Family	Epoxy Coating
Chemical Manufacturer / Importer	Hempel (USA), Inc. Jones-Blair Division 2728 Empire Central Dallas, TX 75235 1-214-353-1600
Emergency Telephone Number:	ChemTrec Center 1-800-424-9300 **International:** 703-527-3887

2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Hazard Pictograms

GHS Classification

Skin Sensitisation Category 1
Carcinogenicity Category 1A
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Flammable Liquid Category 3
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Acute Toxicity - Inhalation Vapour Category 4

Signal Word

Danger

Hazard Statements

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static

	discharge. Do not breathe dust, fume, mist, vapours or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and face protection. Use personal protective equipment as required.
Response	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Call a POISON CENTER or physician if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for extinction.
Storage	Store locked up. Store in a cool, well-ventilated place. Keep container tightly closed.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards Not Otherwise Classified (HNOC)	Not applicable

Additional Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Component	CAS #	%
Bisphenol-A-diglycidylether	25068-38-6	40 - 60
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	10 - 30
Cristobalite (Silica-Crystalline)	14464-46-1	5 - 10
Quartz (Silica-Crystalline)	14808-60-7	3 - 7
Light aromatic solvent naphtha	64742-95-6	3 - 7
Carbon black	1333-86-4	1 - 5
4-Methyl-2-pentanone	108-10-1	1 - 5

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Thoroughly wash or discard clothing and shoes before reuse.
Ingestion	If swallowed, do not induce vomiting. Get medical attention immediately. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

Most Important Acute Symptoms and Effects	Not Available
Most Important Delayed Symptoms and Effects	Not Available
Special treatment needed:	Pre-existing disorders of the following organs may be aggravated by exposure to this material: skin, lung (for example, asthma-like symptoms)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
Unsuitable Extinguishing Media	No data available
Fire and/or Explosion Hazards	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Container may explode in heat of fire.
Hazardous Combustion Products	Carbon monoxide, Aldehydes, Carbon dioxide, Toxic gases
Special Protective Equipment and Precautions for Fire-Fighters	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Methods and Material for Containment and Cleaning Up	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Follow all protective equipment recommendations provided in Section VIII. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.
Conditions for Safe Storage	Store in a cool dry place. Keep container(s) closed. Keep away from sources of ignition.
Materials to Avoid/Chemical Incompatibility	Oxidizing agents, Acids, Amines, Caustics (bases, alkalis)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Cristobalite (Silica-Crystalline)	see Table Z-3	0.05 mg/m3 TWA (this TLV is for the respirable fraction of dust)	
Talc	2mg/m³ (Respirable Dust)	20 mppcf TWA	
Quartz (Silica-Crystalline)	see Table Z-3	0.05 mg/m³ TWA (respirable fraction)	
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	
Methyl Isobutyl Ketone	100 ppm TWA; 410 mg/m3 TWA	50 ppm TWA; 205 mg/m3 TWA	75 ppm STEL; 307 mg/m3 STEL
1,2,4-Trimethylbenzene		25ppm; 123mg/m³ TWA	

Appropriate Engineering Controls Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Explosion proof exhaust ventilation should be used.

Respiratory Protection General or local exhaust ventilation is the preferred means of protection. In cases where ventilation is inadequate, respiratory protection may be required to avoid overexposure. Follow respirator manufacturer's directions for respirator use.

Eye Protection Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

Skin Protection Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to prevent skin contact.

General Hygiene Conditions Follow all protective equipment recommendations provided in Section VIII. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid
Color	Black
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point (℉/℃)	No data available / No data available
Initial Boiling Point and Boiling Range	
Low (℉)	302.0
High (℉)	392.0
Flash Point (℉/℃)	104 / 40
Flammability (solid, gas)	No data available
Upper Flammable/Explosive Limit	7.0
Lower Flammable/Explosive Limit	1.0
Vapor Pressure	68°F 82.00 PA
Vapor Density	4.15 (air = 1)

Relative Density	1.294
Solubility in Water	Negligible; 0-1%
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	> 572 ℉
Decomposition Temperature:	No data available
Viscosity	600 - 1,200 CPS
Volatiles, % by volume	18.14
Volatiles, % by weight	11.92
Volatile Organic Chemicals (g/L)	
(Regulatory, Calculated)	154.20
(Actual, Calculated)	154.20
Density	10.50 - 11.10 lbs./Gal

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Contamination.
Incompatible Materials	Oxidizing agents, Acids, Amines, Caustics (bases, alkalis)
Hazardous Decomposition Products	Aldehydes, Carbon dioxide, Carbon monoxide, Toxic gases

11. TOXICOLOGICAL INFORMATION

Routes of Exposure

Eye contact
Skin contact
Inhalation
Ingestion
Skin absorption

Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation	Causes nose and throat irritation.
Inhalation Toxicity	Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea.
Skin Contact	Can cause moderate skin irritation. May cause allergic skin reaction.
Eye Contact	Causes eye irritation.
Ingestion Toxicity	Harmful if swallowed. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Long-Term (Chronic) Health Effects

Carcinogenicity	Cancer hazard: Contains Crystalline Silica, which can cause cancer. Risk of cancer depends on duration and level of exposure to dust generated from sanding surfaces or spray mists. Possible cancer hazard. Contains carbon black which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)
Inhalation	Overexposure may cause lung damage. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Skin Contact	Prolonged contact may cause an allergic skin reaction.

Product Toxicology Data

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol-A-diglycidylether	Oral LD50 Rat > 15,000	Dermal LD50 Rabbit	

	mg/kg	23,000 mg/kg	
Phenol, polymer with formaldehyde, glycidyl ether	Oral LD50 Rat > 5000 mg/kg		Inhalation LC50 (4h) Rat > 20.00 mg/L
Talc	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Quartz	Oral LD50 Rat > 22,500 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Light aromatic solvent naphtha	Oral LD50 Rat 8400 mg/kg	Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 (4h) Rat 5.60 mg/L
Carbon black	Oral LD50 Rat > 8000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	
4-Methyl-2-pentanone	Oral LD50 Rat 2080 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 8.20 - 16.40 mg/L
1,2,4-Trimethylbenzene	Oral LD50 Rat 6000 mg/kg	Dermal LD50 Rat > 3440 mg/kg	Inhalation LC50 (4h) Rat 10.20 mg/L

Carcinogen Information

Chemical Name	IARC Carcinogen	OSHA Carcinogen	NTP Carcinogen
Cristobalite (Silica-Crystalline)	1		1
Talc	2B		
Quartz	1		1
Carbon black	2B		
4-Methyl-2-pentanone	2B		

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available) No data available

Mobility in soil No data available

13. DISPOSAL CONSIDERATIONS

Safe Handling of Waste Refer to other sections of this SDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint
Hazard Class: 3
UN Number: UN1263
Packing Group: III
Other: Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119 gallons) or less (DOT 49CFR 173.150(f)).

Marine Pollutant: No

15. REGULATORY INFORMATION

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

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Regulated Components

SARA EHS Chemicals	**CAS #**	**%**
Epichlorohydrin	106-89-8	< 10 ppm

CERCLA

Methyl Isobutyl Ketone	108-10-1	1 - 5

SARA 313

Methyl Isobutyl Ketone	108-10-1	1 - 5
1,2,4-Trimethylbenzene	95-63-6	1 - 5

SARA 311/312

Health (Acute):	Y
Health (chronic):	Y
Fire (Flammable):	Y
Pressure:	N
Reactivity:	N

U. S. State Regulations:

California Prop 65 Chemicals

Cancer	**CAS #**	**%**
Cristobalite (Silica, Crystalline (Respirable Size))	14464-46-1	5 - 10
Crystalline Silica	14808-60-7	3 - 7
Carbon Black	1333-86-4	1 - 5
Methyl Isobutyl Ketone	108-10-1	1 - 5
Cumene	98-82-8	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
1-Chloro-2,3-epoxypropane	106-89-8	< 10 ppm
Phenyl glycidyl ether	122-60-1	< 10 ppm
Reproductive		
Methyl Isobutyl Ketone	108-10-1	1 - 5
Benzene	71-43-2	0.001- 0.01

Canadian Regulations:

CEPA DSL:	The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS Hazard Class:	B3 D2A

16. OTHER INFORMATION

Revision Date	02-10-2016
Disclaimer	This SDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This information is furnished without warranty, expressed or implied.