



SAFETY DATA SHEET

Jet Black - Hardener

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Revision: 07/15/2016

Supersedes Revision: 05/12/2014

1. Product and Company Identification

Product Code: CE-JB (H)
Product Name: Jet Black - Hardener
Company Name: Crest Industries, Inc.
1337 King Road
Trenton, MI 48183
Phone Number: (734)479-4141
Web site address: crestauto.com
Emergency Contact: Chemtel (800)255-3924
International Calls (813)248-0585
Stock Number(s): CE-JB

2. Hazards Identification

Skin Corrosion/Irritation, Category 1B

Serious Eye Damage/Eye Irritation, Category 1

Skin Sensitization, Category 1



GHS Signal Word: Danger

GHS Hazard Phrases:
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

GHS Precaution Phrases:
P261 - Avoid breathing dust/fume.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection.

GHS Response Phrases:
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P333+313 - If skin irritation or rash occurs, get medical advice/attention.
P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:
P405 - Store locked up.
P501 - Dispose of contents/container to an approved treatment/storage/disposal facility in accordance with local/regional/national and international regulations.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	1.000 - 5.000 %
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	1.000 - 5.000 %
112-24-3	Triethylenetetramine	5.000 - 10.00 %



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4. First Aid Measures

Emergency and First Aid

Procedures:

- In Case of Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention/advice if you feel unwell.
- In Case of Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water.
- In Case of Eye Contact:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- In Case of Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire Fighting Measures

- Flash Pt:** > 94.0 C (201 F) Method Used: Estimate
- Explosive Limits:** LEL: UEL:
- Autoignition Pt:** 335 C (635 F)
- Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Specific Hazard(s):

Flammable Properties and

Hazards:

Hazardous Combustion

Products:

6. Accidental Release Measures

- Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Provide ventilation. Do not let product enter drains.

7. Handling and Storage

- Precautions To Be Taken in Handling:** User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Do not breathe vapor. Use with adequate ventilation.
- Precautions To Be Taken in Storing:** Store in a cool, dry place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
3033-62-3	Bis(2-(dimethylamino)ethyl)ether		TLV: 0.05 ppm STEL: 0.15 ppm	
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica			
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-			



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**Respiratory Equipment
(Specify Type):**

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection:

Safety glasses.

Protective Gloves:

Wear appropriate gloves to prevent skin exposure.

Other Protective Clothing:

Wear appropriate protective clothing to minimize contact with skin.

**Engineering Controls
(Ventilation etc.):**

Use adequate ventilation to keep airborne concentrations low.

**Work/Hygienic/Maintenance
Practices:**

Wash thoroughly after handling.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: White.
amine-like.

pH:

Melting Point:

Boiling Point: - 999 C (1830 F)

Flash Pt: > 94.0 C (201 F) Method Used: Estimate

Evaporation Rate:

Flammability (solid, gas):

Explosive Limits: LEL: UEL:

**Vapor Pressure (vs. Air or
mm Hg):**

Vapor Density (vs. Air = 1):

Specific Gravity (Water = 1):

Density: 1.19 G/CM3

Solubility in Water:

Octanol/Water Partition

Coefficient:

Autoignition Pt: 335 C (635 F)

Decomposition Temperature:

Viscosity:

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Incompatible materials, Excess heat.

Instability:

Incompatibility - Materials To Strong oxidizing agents.

Avoid:

Hazardous Decomposition or Hazardous decomposition products formed under fire conditions. Hazardous
Byproducts: Decomposition Products: silicon oxides. Carbon monoxide, Carbon dioxide, Nitrogen
oxides.

Possibility of Hazardous Will occur [] Will not occur [X]
Reactions:

Conditions To Avoid -
Hazardous Reactions:



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11. Toxicological Information

Toxicological Information:

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	n.a.	n.a.	n.a.	n.a.
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	n.a.	n.a.	n.a.	n.a.
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Contact a licensed professional waste disposal service to dispose of this material.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Limited Quantity.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Limited Quantity.

UN Number:

Hazard Class:

TDG Classification:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine)

UN Number: 3267

Packing Group: III

Hazard Class: 8 - CORROSIVE

IMDG MFAG Number:

IMDG EMS Page:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Corrosive liquid, basic, organic, n.o.s. (Triethylenetetramine)

UN Number: 3267

Packing Group: III

Hazard Class: 8 - CORROSIVE

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	No	No	No
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No	No	No
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	No	No	No

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard

'Hazard Categories' defined ☒ Yes ☐ No Chronic (delayed) Health Hazard

for SARA Title III Sections ☒ Yes ☐ No Fire Hazard

311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard

☐ Yes ☒ No Reactive Hazard



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CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian IDL	Canadian DSL
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	No	No	Yes
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No	No	Yes
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	No	Yes	Yes
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: Yes		
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No		
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists		
3033-62-3	Bis(2-(dimethylamino)ethyl)ether			
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica			
112-24-3	1,2-Ethanediamine, N,N'-Bis(2-aminoethyl)-			

Canadian WHMIS Classification:

16. Other Information

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Additional Information About This Product:

Company Policy or Disclaimer:

The information contained in this SDS is believed to be accurate and reliable as of the date indicated. Crest Industries, Inc. assumes no legal responsibility and makes no representation, warranty or guarantee, expressed or implied, as to the completeness or accuracy of the information. It is offered solely for your consideration, investigation and verification. The user is ultimately responsible for the safe use of the material in accordance with applicable federal, state, provincial and local laws and regulations.



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Jet Black - Resin

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1. Product and Company Identification

Product Code: CE-JB (R)
Product Name: Jet Black - Resin
Company Name: Crest Industries, Inc.
1337 King Road
Trenton, MI 48183
Phone Number: (734)479-4141
Web site address: crestauto.com
Emergency Contact: Chemtel (800)255-3924
International Calls (813)248-0585
Stock Number(s): CE-JB

2. Hazards Identification

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2A

Skin Sensitization, Category 1

Carcinogenicity, Category 2

Aquatic Toxicity (Chronic), Category 2



GHS Signal Word:

Warning

GHS Hazard Phrases:

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer .
H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear gloves/protective clothing/eye protection.

GHS Response Phrases:

P302+352 - IF ON SKIN: Wash with plenty of soap and water.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313 - IF exposed or concerned: Get medical attention/advice.
P333+313 - If skin irritation or rash occurs, get medical advice/attention.
P337+313 - If eye irritation persists, get medical advice/attention.
P362 - Take off contaminated clothing and wash before re-use.
P391 - Collect spillage.

GHS Storage and Disposal Phrases:

P405 - Store locked up.
P501 - Dispose of contents/container to an approved treatment/storage/disposal facility in accordance with local/regional/national and international regulations.



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Potential Health Effects
(Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
25068-38-6	Bisphenol-a based epoxy resin	70.00 - 98.00 %
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	1.000 - 5.000 %
1333-86-4	Carbon black	0.100 - 1.000 %

4. First Aid Measures

Emergency and First Aid
Procedures:

In Case of Inhalation:	If breathing is difficult, give oxygen. If inhaled, remove to fresh air. Get medical attention/advice if you feel unwell.
In Case of Skin Contact:	In case of contact, immediately wash skin with soap and copious amounts of water.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
In Case of Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Note to Physician:	Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:	> 94.0 C (201 F)	Method Used: Estimate
Explosive Limits:	LEL:	UEL:
Autoignition Pt:	NA	
Suitable Extinguishing Media:	Use foam, dry chemical, or carbon dioxide. Suitable: Water spray.	
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.	

Flammable Properties and
Hazards:
Hazardous Combustion
Products:

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Sweep up, place in a bag and hold for waste disposal. Do not let product enter drains. Provide ventilation.
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7. Handling and Storage

Precautions To Be Taken in Handling:	Do not ingest or inhale. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
Precautions To Be Taken in Storing:	Keep away from sources of ignition. Store in a cool, dry place.

8. Exposure Controls/Personal Protection



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CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
25068-38-6	Bisphenol-a based epoxy resin			
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica			
1333-86-4	Carbon black	PEL: 3.5 mg/m3	TLV: 3 mg/m3 (IHL)	

Respiratory Equipment (Specify Type): Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Eye Protection: Safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use adequate ventilation to keep airborne concentrations low.

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Black.
sweetish odor.

pH:

Melting Point: NA

Boiling Point: 260 C (500 F)

Flash Pt: > 94.0 C (201 F) Method Used: Estimate

Evaporation Rate:

Flammability (solid, gas):

Explosive Limits: LEL: UEL:

Vapor Pressure (vs. Air or mm Hg):

Vapor Density (vs. Air = 1):

Specific Gravity (Water = 1):

Density: ~ 1.47 G/CM3

Solubility in Water:

Octanol/Water Partition

Coefficient:

VOC / Volume: 0 LB/GA

Autoignition Pt: NA

Decomposition Temperature:

Viscosity:



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10. Stability and Reactivity

Stability: Unstable [] Stable [X]**Conditions To Avoid -** Incompatible materials, Excess heat.**Instability:****Incompatibility - Materials To** Strong oxidizing agents.**Avoid:****Hazardous Decomposition or** Carbon monoxide, Hazardous decomposition products formed under fire conditions.**Byproducts:****Possibility of Hazardous** Will occur [] Will not occur [X]**Reactions:****Conditions To Avoid -****Hazardous Reactions:**

11. Toxicological Information

Toxicological Information:**Carcinogenicity/Other** CAS# 2238-07-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.**Information:**

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
25068-38-6	Bisphenol-a based epoxy resin	n.a.	n.a.	n.a.	n.a.
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	n.a.	n.a.	n.a.	n.a.
1333-86-4	Carbon black	n.a.	2B	A4	n.a.

12. Ecological Information

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Contact a licensed professional waste disposal service to dispose of this material.

14. Transport Information

LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** Not Regulated.**DOT Hazard Class:****UN/NA Number:****LAND TRANSPORT (Canadian TDG):****TDG Shipping Name:****UN Number:****Hazard Class:****TDG Classification:****MARINE TRANSPORT (IMDG/IMO):****IMDG/IMO Shipping Name:** Environmentally hazardous substances, liquid, n.o.s. (Bisphenol A Epoxy Resin)**UN Number:** 3082**Packing Group:** III**Hazard Class:** 9 - CLASS 9**IMDG MFAG Number:****IMDG EMS Page:**



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AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Environmentally hazardous substances, liquid, n.o.s. (Bisphenol A Epoxy Resin)
UN Number: 3082 **Packing Group:** III
Hazard Class: 9 - CLASS 9

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
25068-38-6	Bisphenol-a based epoxy resin	No	No	No
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No	No	No
1333-86-4	Carbon black	No	No	No

This material meets the EPA ☒ Yes ☐ No **Acute (immediate) Health Hazard**
'Hazard Categories' defined ☒ Yes ☐ No **Chronic (delayed) Health Hazard**
for SARA Title III Sections ☒ Yes ☐ No **Fire Hazard**
311/312 as indicated: ☐ Yes ☒ No **Sudden Release of Pressure Hazard**
☐ Yes ☒ No **Reactive Hazard**

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian IDL	Canadian DSL
25068-38-6	Bisphenol-a based epoxy resin	No	No	Yes
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	No	No	Yes
1333-86-4	Carbon black	No	Yes	Yes

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
25068-38-6	Bisphenol-a based epoxy resin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
1333-86-4	Carbon black	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
25068-38-6	Bisphenol-a based epoxy resin	
67762-90-7	Siloxanes and silicones, di-me, reaction products with silica	
1333-86-4	Carbon black	

Canadian WHMIS Classification:



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16. Other Information

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Additional Information About

This Product:

Company Policy or

Disclaimer:

The information contained in this SDS is believed to be accurate and reliable as of the date indicated. Crest Industries, Inc. assumes no legal responsibility and makes no representation, warranty or guarantee, expressed or implied, as to the completeness or accuracy of the information. It is offered solely for your consideration, investigation and verification. The user is ultimately responsible for the safe use of the material in accordance with applicable federal, state, provincial and local laws and regulations.