



## 1. Product and Company Identification

**Product Code:** CF-R  
**Product Name:** Rigi-Foam  
**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):** CF-R

## 2. Hazards Identification

**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 2A**  
**Respiratory Sensitization, Category 1**  
**Skin Sensitization, Category 1**  
**Carcinogenicity, Category 2**  
**Specific Target Organ Toxicity (single exposure), Category 3**  
**Specific Target Organ Toxicity (repeated exposure), Category 2**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 - May cause respiratory irritation.  
H351 - Suspected of causing cancer .  
H373 - May cause damage to organs through prolonged or repeated exposure.

**GHS Precaution Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P285 - In case of inadequate ventilation wear respiratory protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P333+313 - If skin irritation or rash occurs, get medical advice/attention.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P362 - Take off contaminated clothing and wash before re-use.

**GHS Storage and Disposal** P405 - Store locked up.



**Phrases:** P501 - Dispose of contents/container to an approved treatment/storage/disposal facility in accordance with local/regional/national and international regulations.

**Potential Health Effects (Acute and Chronic):**

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Polyol	40.00 - 60.00 %
9016-87-9	Polymeric diphenylmethane diisocyanate	13.00 - 30.00 %
101-68-8	Methylenebis(phenylisocyanate)	13.00 - 30.00 %
3296-90-0	2,2-bis(Bromomethyl)-1,3-propanediol	1.500 - 5.000 %
26447-40-5	Diphenylmethane diisocyanate	1.500 - 5.000 %

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

**In Case of Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Note to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5. Fire Fighting Measures

**Flash Pt:** 93.0 C (199 F)

**Explosive Limits:** LEL: .4 UEL:

**Autoignition Pt:** 400 C (752 F)

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary.

**Flammable Properties and Hazards:**

**Hazardous Combustion Products:**

### 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

Keep in suitable, closed containers for disposal.

### 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place.



## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Polyol			
9016-87-9	Polymeric diphenylmethane diisocyanate			
101-68-8	Methylenebis(phenylisocyanate)	CEIL: 0.02 ppm	TLV: 0.005 ppm	
3296-90-0	2,2-bis(Bromomethyl)-1,3-propanediol			
26447-40-5	Diphenylmethane diisocyanate			

**Respiratory Equipment (Specify Type):** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eye Protection:** Face shield and safety glasses.

**Protective Gloves:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Other Protective Clothing:** Complete suit protecting against chemicals.

**Engineering Controls (Ventilation etc.):** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. Physical and Chemical Properties

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

**Appearance and Odor:** Tan.  
characteristic odor.

**pH:**

**Melting Point:** NA - 5.00 C (41.0 F)

**Boiling Point:** NA

**Flash Pt:** 93.0 C (199 F)

**Evaporation Rate:**

**Flammability (solid, gas):**

**Explosive Limits:** LEL: .4 UEL:

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

**Vapor Density (vs. Air = 1):**

**Specific Gravity (Water = 1):**

**Density:** 1.15 G/CM3

**Solubility in Water:**

**Solubility Notes:** Miscable.



**Octanol/Water Partition**

**Coefficient:**

**Autoignition Pt:** 400 C (752 F)

**Decomposition Temperature:**

**Viscosity:**

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -**

**Instability:**

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, acids, Amines, Bases.

**Hazardous Decomposition or Byproducts:**

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

**Conditions To Avoid - Hazardous Reactions:**

**11. Toxicological Information**

**Toxicological Information:**

**Carcinogenicity/Other Information:** Carcinogenicity.  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Polyol	n.a.	n.a.	n.a.	n.a.
9016-87-9	Polymeric diphenylmethane diisocyanate	n.a.	3	n.a.	n.a.
101-68-8	Methylenebis(phenylisocyanate)	n.a.	3	n.a.	n.a.
3296-90-0	2,2-bis(Bromomethyl)-1,3-propanediol	Possible	2B	n.a.	n.a.
26447-40-5	Diphenylmethane diisocyanate	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. 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:** None

**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:**

**UN Number:** None

**Hazard Class:**

**TDG Classification:**

**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)
NA	Polyol	No	No	No
9016-87-9	Polymeric diphenylmethane diisocyanate	No	No	Yes-Cat. N120
101-68-8	Methylenebis(phenylisocyanate)	No	Yes 5000 LB	Yes-Cat. N120
3296-90-0	2,2-bis(Bromomethyl)-1,3-propanediol	No	No	Yes
26447-40-5	Diphenylmethane diisocyanate	No	No	Yes-Cat. N106

**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)	Other US EPA or State Lists
NA	Polyol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; 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
9016-87-9	Polymeric diphenylmethane diisocyanate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 4140; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
101-68-8	Methylenebis(phenylisocyanate)	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 1253; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
3296-90-0	2,2-bis(Bromomethyl)-1,3-propanediol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR, 8D TERM; CA PROP.65: Yes; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 4099; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
26447-40-5	Diphenylmethane diisocyanate	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: No; SC TAP: Yes - Cat.; WI Air: No



## 16. Other Information

**Revision Date:** 03/03/2014

### **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.