



High Performance Foams

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# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: HT-1200 Series

CHEMICAL FAMILY: Silicone Rubber

HMIS RATING: H 1 F 1 R 0

USE OF MATERIAL: High Pressure/Temperature Gaskets

DATE ISSUED: 6/27/2008

EMERGENCY PHONE: 860-774-9605 (Monday – Friday 8 a.m. – 5 p.m. EST)

CHEMTREC: 800-424-9300 (U.S. & Canada) (24 Hours)  
703-527-3887 (International – Call Collect) (24 Hours)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS /ELINCS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>China OEL</u>	<u>EU Classification</u>
Fumed Silica (Encapsulated)	68583-49-3	271-514-2	10-60	<u>80 mg/m<sup>3</sup></u> % SiO <sub>2</sub>	2 mg/m <sup>3</sup> (Respirable)	NE	Not classified under 67/548/EC
Cristobalite (Encapsulated)	14464-46-1	238-455-4	0-3	<u>5 mg/m<sup>3</sup></u> % SiO <sub>2</sub> + 2 (Respirable)	0.05 mg/m <sup>3</sup> (Respirable)	NE	Not classified under 67/548/EC
Carbon Black	1333-86-4	215-609-9	0-3	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	NE	Not classified under 67/548/EC

The material contains no other hazardous ingredients as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200 or EU directive 1999/45/EC, and do not present a health or environmental hazard according to directive 67/548/EC.

## 3. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE

LABELING REQUIREMENTS: NE

EFFECTS OF OVEREXPOSURE: None are expected with normal handling. Materials listed in Section 2 are encapsulated or compounded making release unlikely. Cutting and other finishing operations may create dust. Ventilation and personal protective equipment should be similar to operations generating nuisance dust.

INHALATION: Dusts may cause respiratory irritation.

EYE CONTACT: Dusts may cause irritation.

SKIN CONTACT: Dusts may cause irritation.

INGESTION: None known.

CHRONIC: The IARC has listed carbon black as a Class 2B possible human carcinogen based on animal studies.

#### 4. FIRST-AID MEASURES

INHALATION:	Remove to fresh air. Seek medical attention if condition merits.
EYE CONTACT:	Flush eyes and eyelids thoroughly with water and seek medical attention if irritation persists.
SKIN CONTACT:	Wash contacted areas thoroughly with soap and water.
INGESTION:	Not a likely route of exposure. If large amounts of processing dusts are ingested resulting in gastrointestinal discomfort, seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT:	NE °C (°F)	Flammable Limits: LEL	<u>NA</u>	UEL	<u>NA</u>
AUTOIGNITION TEMPERATURE:	NE °C (°F)				
EXTINGUISHING MEDIA:	<u>X</u> Water Spray	<u>X</u> Foam	<u>X</u> CO <sub>2</sub>		
	<u>X</u> Dry Chemical		Other –		
SPECIAL FIRE FIGHTING PROCEDURES:	Firefighters should be equipped with self-contained breathing apparatus and turnout gear.				
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Decomposition in a fire may produce toxic fumes and siliceous char.				

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Wear suitable protective equipment. Wear self-contained breathing apparatus and heavy rubber gloves. Avoid contact with skin and eyes.
ENVIRONMENTAL PRECAUTIONS:	Prevent from entering sewer system, surface water or soil.
CLEANING METHODS:	Pick up large solid materials. Use broom and dust pan to collect smaller pieces. Dispose of properly.

#### 7. HANDLING AND STORAGE

HANDLING:	Wear suitable protective equipment (refer to Section 8). Wash hands with soap and water after handling. Avoid processing conditions that release small particles of materials (10 micrometers or less).
STORAGE:	Keep container tightly closed in a cool, well-ventilated area.

#### 8. ENGINEERING CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:	None needed under normal conditions. If material is heated and odors are noticeable and/or irritating, a respirator meeting NIOSH requirements should be used. A qualified individual should evaluate each situation.
<u>VENTILATION</u>	
LOCAL:	Recommended for all industrial operations.
GENERAL:	Recommended for all industrial operations.
<u>PERSONAL PROTECTION</u>	
HAND:	None required.
EYE:	Safety glasses with side shields
SKIN:	None required.
OTHER:	Safety shower/eyewash in the area if possible tissue exposure to materials.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid, Various Colors
ODOR:	Slight characteristic
PHYSICAL STATE:	Solid
BOILING POINT:	NA °C (°F)
MELTING POINT:	NE °C (°F)
FREEZING POINT:	NA °C (°F)
FLASH POINT:	NE °C (°F)
WATER SOLUBILITY:	None
VAPOR DENSITY:	NA
VAPOR PRESSURE:	NA
SPECIFIC GRAVITY:	1.1 – 1.4 (Water = 1)
PARTITION COEFFICIENT:	NA
EVAPORATION RATE:	NA
RELATIVE DENSITY:	1.1 – 1.4 g/cc
VISCOSITY:	NA
AUTO-IGNITION TEMPERATURE:	NA °C (°F)
DECOMPOSITION TEMPERATURE:	NA °C (°F)
PH:	NA
FLAMMABILITY:	NA

## 10. STABILITY AND REACTIVITY

STABLE  UNSTABLE

CONDITIONS TO AVOID:	NE
MATERIALS TO AVOID:	NE
HAZARDOUS POLYMERIZATION:	<input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Does Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide, formaldehyde, silicon dioxide, and traces of incompletely burned carbon compounds.

## 11. TOXICOLOGICAL INFORMATION

CARCINOGENIC STATUS: Cristobalite is listed by IARC as a Group 1 carcinogen (carcinogenic to humans) and by NTP as “reasonably anticipated to be a carcinogen”. However the cristobalite in this material is encapsulated eliminating this hazard during normal processing.

The IARC has listed carbon black as a Class 2B possible human carcinogen based on animal studies.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY: NA

## 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES AFFECTING DISPOSAL:	None
ENVIRONMENTAL TOXICITY DATA:	NA
WASTE DISPOSAL METHOD:	Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

## 14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated  
UN PROPER SHIPPING NAME: Not Regulated  
HAZARD CLASS (ES): Not Regulated  
PACKING GROUP: Not Regulated  
ENVIRONMENTAL HAZARDS: NE

## 15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:  
Canadian (DSL/NDSL): NE  
Australian (ACIS): NE  
Korea (KECI): NE  
Japan (ENCS, MITI): NE  
China (SEPA): NE  
EU Directive 2002/95/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.  
  
European:  
Symbol: Not classified according to directive 67/548/EEC (dangerous substances) and 1999/45/EC (dangerous preparations).  
  
R-Phase(s): NA  
S-Phase(s): NA  
TSCA: All materials are listed or exempt from TSCA listing.  
(*Toxic Substances Control Act*):  
CERCLA: NA  
(*Comprehensive Emergency Response, Compensation, and Liability Act*):  
SARA TITLE III: NA  
(*Superfund Amendments and Reauthorization Act*):  
311/312 HAZARD CATEGORIES: None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
NA	NA	NA

## 16. OTHER INFORMATION

NA = Not Applicable  
NE = Not Established  
NC = Not Classified

FILE: HT-1200Series.doc  
99058

PREPARED BY: Mary Katherine Starr  
REVIEWED BY: Michal Werbecki

Date Prepared: 6/27/2008

### REVISION ITEMS & DATE:

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