



# SAFETY DATA SHEET RetroFoam

## 1. Identification of the Substance/Preparation and Company/Undertaking

**Product name :** RetroFoam  
**Use of the substance/preparation :** Foam in Place Insulation  
**Supplier :** PolyMaster, Inc., 10523 Lexington Drive, Knoxville, Tennessee, USA  
 Tel, 1-865-966-3005 Fax. 1-865-675-3300  
**e-mail address of person :** [carleton@polymaster.com](mailto:carleton@polymaster.com) responsible for this SDS  
**Emergency telephone :** 1-800-580-FOAM number

## 2. Hazards Identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

## 3. Composition/Information on Ingredients

**Classification** : Not classified.  
**Physical/chemical hazards** : Non-combustible.  
**Additional hazards** : Handling or disposing of this material may generate dusts which can cause mechanical irritation of the eyes, skin, nose and throat.  
**Substance/preparation** : Preparation  
**Chemical characterization** : Urea formaldehyde plastic resin.

	CAS Number	%	EC Number	Classification
Silicic acid, aluminum sodium salt...%	1344-00-9	1-5	215-684-8	Not classified. [2] Carc. Cat. 3; R40 T; R23/24/25 C; R34 R43 [1] [2]
Formaldehyde ...% See section 16 for the full text of the R-phrases declared above	50-00-0	0.1-0.2	200-001-8	

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit Occupational exposure limits, if available, are listed in section 8.

## 4. First-aid Measures

**Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire,

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symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if symptoms occur.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- General** : Move the victim to a safe area as soon as possible. If unconscious, place in recovery position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Allow the victim to rest in a well-ventilated area.
- Protection of First-aiders** : No action shall be taken involving any personal risk or without suitable training.

**See section 11 for more detailed information on health effects and symptoms.**

## 5. Fire-fighting Measures

- Suitable response materials** : Use alcohol-resistant foam or water spray (mist).
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides Aldehydes, oxides of nitrogen
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental Release Measures

- Personal precautions** : Avoid breathing dusts when removing off-specification materials. Provide adequate ventilation. Put on appropriate personal protective equipment (see section 8).
- Large spill** : Avoid the creation of dusts when handling foam insulation. Contain and collect damaged foam with a vacuum cleaner. Foam residuals are considered non-hazardous for disposal. Check with local regulations (see section 13). Note: see section 1 for emergency contact information and section 13 for waste disposal.
- Small spill** : No special measures are required. Vacuum or sweep up material and place in a designated, labeled waste container.

## 7. Handling and Storage

<b>Handling</b>	:	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
<b>Storage</b>	:	No special precautions
<b>Packaging materials recommended</b>	:	No special precautions

## 8. Exposure Controls/Personal Protection

Ingredient name	Occupational exposure limits
Silicic acid, aluminum sodium salt...%	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).
Formaldehyde ...%	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> STEL: 2.5 mg/m <sup>3</sup> 15 minute(s). STEL: 2 ppm 15 minute(s). TWA: 2.5 mg/m <sup>3</sup> 8 hour(s). TWA: 2 ppm 8 hour(s).

<b>Recommended monitoring Procedures</b>	:	If off-specification materials contain ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
<b>Occupational exposure controls</b>	:	No occupational exposures are anticipated.
<b>Respiratory protection</b>	:	Wear appropriate respirator when handling discarded materials. Recommended : particulate filter (e.g. dust mask)
<b>Hand protection</b>	:	No special hazards. Recommend use of utility work gloves.
<b>Eye protection</b>	:	If operating conditions cause high dust concentrations to be produced, wear safety glasses or dust goggles.
<b>Environmental protection</b>	:	No emissions are anticipated with this product. Off-spec materials should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. Physical and Chemical Properties

### Appearance

**Physical state** : Solid. [Foam]

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RetroFoam

**Color** : White.

**Odor** : None

### Important Health, Safety and Environmental Information

**pH** : 6.5 to 7.5 [Light-weight foam solid]

**Solubility** : Insoluble in water or organic liquids/solvents.

**Explosion hazard.** : Non-flammable

## 10. Stability and Reactivity

**Stability** : The product is stable.

**Conditions to avoid** : Nuisance dusts can be generated when handling dry or off-specification foam insulation. Avoid the creation of dust when handling.

**Materials to avoid** : No known incompatibilities. May decompose in presence of strong oxidizers.

**Hazardous decomposition** : Under normal conditions of use, hazardous decomposition products should not be produced. Aldehydes and oxides of nitrogen may be released during thermal decomposition.

## 11. Toxicological Information

### Acute Toxicity

Product/Ingredient Name	Test	Species	Dose	Exposure
Formaldehyde...%	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
	LC50 Inhalation Gas.	Rat	250 ppm	4 hours

### Potential Acute Health Effects

**Inhalation** : Exposure to dusts may cause irritation of the nose or throat. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact** : May cause allergic skin reactions with repeated exposure.

**Eye contact** : Exposure to dusts may cause irritation of the eyes.

### Potential Chronic Health Effects

**Chronic effects** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following: respiratory tract irritation coughing

**Eyes** : Adverse symptoms may include the following: irritation redness

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## 12. Ecological Information

**Environmental Effects** : The foam insulation is not classified as dangerous according to directive 1999/45/EC and its amendments

### Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Formaldehyde...%		Acute EC50 5800 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex - Neonate - <24 hours	48 hours
		Acute LC50 1.41 ppm Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus Mykiss	96 hours
		Acute LC50 330000 to 1000000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - LARVAE	48 hours

<b>Biodegradability</b>			
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Formaldehyde ...%	--	--	--

  

<b>Bioaccumulative Potential</b>			
Product/ingredient name	LogPow	BCF	Potential
Formaldehyde ...%	0.35	--	low

## 13. Disposal Considerations

**Methods of Disposal** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

**European Waste Catalog (EWC)** : --

**Hazardous Waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC. Cured resin (e.g. foam insulation) is regarded as non-hazardous waste.

## 14. Transportation Information

	UN Number	Proper Shipping Name	Classes	PG	Label	Additional Information
<b>ADR/RID Class</b>	Not regulated	--	--	--		--
<b>ADN/ADNR Class</b>	Not regulated	--	--	--		--
<b>IMDG Class</b>	Not regulated	--	--	--		--
<b>IATA Class</b>	Not regulated	--	--	--		--

## 15. Regulatory Information

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

**Risk phrases** : This product is not classified according to EU legislation.

**Product use** : Industrial applications.

**Europe inventory** : All components are listed or exempted.

**Additional warning phrases** : Contains formaldehyde ...%. May produce an allergic reaction. Safety data sheet available for professional user on request.

## 16. Other Information

**Full text of R-phrases** : R40- Limited evidence of a carcinogenic effect. referred to in sections 2 and R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. 3 -United Kingdom (UK) R34- Causes burns. R43- May cause sensitisation by skin contact.

**Full text of classifications** : Carc. Cat. 3 - Carcinogen category 3 **referred to in sections 2 and T - Toxic 3 -United Kingdom (UK) C – Corrosive**

**Recommended use and Restrictions** : No restrictions need to be observed

### History

**Date of issue** : 12.09.2010  
**Date of previous issue** : No previous validation  
**Version** : 1

^Indicates information that has changed from previously issued version.

**Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**

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