

# MATERIAL SAFETY DATA SHEET

Revision Date: December 28, 2006

---

## 1. Identification of Product and Manufacturer

<b>Product Name:</b>	<b>SMF F40</b>
<b>Manufacturer:</b> Perstorp Polyols, Inc. 600 Matzinger Road Toledo, Ohio 43612 (419) 729-5448 800-537-0280	<b>Emergency Telephone Number:</b> Transportation: CHEMTREC 1-800-424-9300

## 2. Composition / Information on Ingredients

<b>Chemical Name</b>	<b>CAS Registry No.</b>	<b>%</b>
Sulfurous acid, monosodium salt, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine	64787-97-9	39-41
Formaldehyde	50-00-0	< 0.2
Water	7732-18-5	>59

Description: Aqueous solution of sulphonated melamine methanal condensate

## 3. Hazards Identification

### Emergency Overview

	HMIS
Health	2
Flammability	0
Reactivity	0

### Potential Health Effects

**Human health hazards:** May cause sensitization to susceptible persons.

**Inhalation:** May cause irritation or sensitization of respiratory system, irritation of throat

**Skin Contact:** May cause irritation or sensitization of skin.

**Eye Contact:** May cause eye irritation.

**Ingestion:** May be acutely toxic.

### CARCINOGENICITY

Formaldehyde OSHA Potential Cancer Hazard.  
National Toxicology Program (NTP) Anticipated Cancer hazard  
IARC Known Human Carcinogen

# MATERIAL SAFETY DATA SHEET

## 4. First Aid Measures

- Inhalation: Remove to fresh air.
- Skin Contact: Wash with soap and water. Get medical attention if irritation develops.
- Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation occurs.
- Ingestion: Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

## 5. Fire Fighting Measures

### Hazardous thermal decomposition products:

Carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...), Ammonia.

- Protection of fire fighters:** Fire fighters should wear proper protective equipment.
- Extinguishing Media:** Use extinguishing media suitable for surrounding materials.
- Other information:** Non combustible.

## 6. Accidental Release Measures

### Environmental Precautions and Clean-up Methods

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not allow entry to sanitary sewer, waterways or soil. Use suitable protective equipment (Section 8).

## 7. Handling and Storage

- Handling:** Observe good industrial safety and hygiene practice
- Packaging materials:** Use original container.
- Storage:** Store between 0 to 30°C. The product should be used within one year after manufacturing.

## MATERIAL SAFETY DATA SHEET

### 8. Exposure Controls / Personal Protection

<b>Ingredient Name</b>	<b>Occupational Exposure Limits</b>
------------------------	-------------------------------------

1) Formaldehyde	0.75 ppm (8-hour TWA) 2 ppm (15-min STEL)
-----------------	--

**Engineering measures:** Proper ventilation to maintain formaldehyde vapors below above occupational exposure limits.

**Hygiene measures:** When using do not eat, drink or smoke. After handling, always wash hands thoroughly with soap and water. Eyewash facilities required in areas where splashing of eyes with 0.1% formaldehyde.

**Personal protective equipment** – Full-face respirator if above exposure limits for formaldehyde.

<b>Skin and body</b>	Work uniform or laboratory coat.
<b>Hands</b>	Wear rubber or PVC gloves.
<b>Eyes</b>	Splash goggles.

### 9. Physical and Chemical Properties

<b>Boiling Point</b>	100°C
<b>Solubility</b>	Easily soluble in water
<b>Physical state</b>	Liquid
<b>Color</b>	Clear. Colorless.
<b>Odor</b>	Characteristic faint odor
<b>pH</b>	9.5-11.5
<b>Density</b>	1200 kg/m <sup>3</sup>
<b>Flash point</b>	Not applicable.

### 10. Stability and Reactivity

Stable under recommended storage and handling conditions (see section 7).

### 11. Toxicological Information

<b>Acute toxicity:</b>	Oral toxicity (LD50): >5000 mg/kg [Rat].
<b>Mutagenic Effects</b>	Ames test: Negative

### 12. Ecological Information

**Ecotoxicity:** Not readily biodegradable.  
COD: ~360 mg/g (Solid.)  
BOD5: 33 mg/g (Solid.)

**Persistence/degradability:** LC50 >560 mg/l, 48 hours [Fish] (Solid.).  
EC10 1800 mg/l [Bacteria] (Solid.).

## MATERIAL SAFETY DATA SHEET

### 13. Disposal Considerations

Dispose in accordance with Federal, State, and local regulations.

### 14. Transportation Information

#### DOT/IMO

SMF F40 is not a hazardous material under current Department of Transportation regulations.

### 15. Regulatory Information

#### SARA TITLE III HAZARD CLASSIFICATIONS

Acute	Yes
Chronic	Yes
Fire	No
Reactivity	No
Pressure	No

#### LISTS:

SARA Extremely Hazardous Substance	Yes (formaldehyde)
CERCLA Hazardous Material	Yes (formaldehyde)
TSCA Chemical Inventory	Yes
European EINECS Number	200-001-8
Canadian Domestic Substance List	Yes
Japan ENCS	No
Korea ECL	KE-32679
Australia ECS	Yes

### 16. Other Information

Reason for issue or revision: Revised name of product in Section 14.

Prepared by: A. Sloma  
Title: Environment, Health & Safety Manager  
Approval Date: December 28, 2006

---

To the best of our knowledge, the information contained herein is accurate. However, Perstorp Polyols, Inc. does not assume 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 which exist.