Safety Data Sheet

Section 1: Identification

Product name: Metzger McGuire SPF™
Product number: n/a
Recommended use: Stain Preventing Film for Epoxy and Polyurea Joint Fillers
Manufacturer: Metzger McGuire
P.O. Box 2217, Concord, NH 03302 USA
Phone: +1 800.223.6680 Email: specmm80@aol.com Web: www.metzgermcquire.com

Emergency telephone: 800) 255-3924 24 hrs. (Continental U.S.)
(813) 248-0585 24 hrs. (Outside Continental U.S.)

Section 2: Hazard Identification

United States According to OSHA 29 CFR 1910.1200 HCS
Classification:
- Skin Sensitizer: Category 3
- Eye Irritation: Category 2B
Label elements: WARNING

Hazard statements: Causes mild skin irritation – H316
Causes eye irritation – H320

Precautionary statements
Prevention: Wear protective gloves/protection clothing/eye protection/face protection. – P280
Response:
- IF ON SKIN: Wash with plenty of soap and water. – P301 + P352
- If skin irritation or rash occurs: Get medical advice/attention. – P333 + P313
- Wash contaminated clothing before reuse. – P363

Storage/Disposal: Dispose of contents/container in accordance with applicable local/regional/national regulations. – P501

Canada According to WHMIS
WHMIS
This product is regulated as a hazardous material by the Canadian Controlled Product Regulations and is a controlled product under the Workplace Hazardous Materials Information System.

Section 3: Composition / Information on Ingredients

Substances Material does not meet the criteria of a substance.
Mixtures

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>80 – 90</td>
</tr>
<tr>
<td>25213-24-5</td>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>10 – 15</td>
</tr>
<tr>
<td>56-81-5</td>
<td>Glycerin</td>
<td>0 – 3</td>
</tr>
</tbody>
</table>

The exact percentage of this composition has been withheld as a trade secret.

Section 4: First Aid Measures

Description of first aid measures
Inhalation: Remove person to fresh air. If you feel unwell, get medical attention.
Skin Contact: Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.
Eye Contact: Rinse with water. If signs/symptoms develop, get medical attention.
Ingestion: Rinse mouth. If you feel unwell, get medical attention.

Most important symptoms and effects, both acute and delayed
See section 11 – Toxicological Information.

Indication of any immediate medical attention and special treatment required
Not applicable.

Section 5: Fire-fighting Measures

Suitable extinguishing media
In case of fire: Use a fire-fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

Hazardous decomposition or by-products
Carbon monoxide During combustion
Carbon dioxide During combustion
Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

NFPA Ratings: Health: 1 Flammability: 1 Instability: 0 Special Hazards = None
(Hazard Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Ventilate the area with fresh air. For a large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

Methods and material for containment and cleaning up
Contain spill. Work from around the edges of the spill inward and cover with commercially available inorganic absorbent material. Mix in sufficient absorbent material until it appears dry. Shovel as much of the material as possible into a suitable container. Seal the container and dispose of as soon as possible. Clean up residue with detergent and water.

Section 7: Handling and Storage

Precautions for safe handling
For industrial use only. Avoid contact with skin and eyes. Wash thoroughly after handling. Use with adequate ventilation and avoid breathing vapors or mists of this product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Keep containers closed and in a cool, well-ventilated area. Protect from sunlight. Store away from heat. Store away from acids and oxidizers. Material is freeze-thaw stable but best practice for any water-borne coating is to protect from freezing whenever possible.

Section 8: Exposure Controls / Personal Protection

Exposure controls
Engineering controls
Provide adequate ventilation as needed to control concentrations of airborne contaminants below applicable exposure limits. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment
Respiratory
An exposure assessment may be needed to decide if a respirator is required. If needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, use either a half-facepiece or full-facepiece air-purifying respirator suitable for particulates. Consult respirator manufacturer for suitability for a specific application.

Eye/face protection
Safety glasses with eye shields are recommended.

Skin/hand protection
Wear protective gloves with cuffs. Normal work clothing (long sleeves and pants) is recommended.

General industrial hygiene
Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Section 9: Physical and Chemical Properties

Basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical form</th>
<th>Liquid</th>
<th>Percent volatile</th>
<th>88%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Light amber</td>
<td>VOC (calculated)</td>
<td>0.03% wt.; 0.3g/l</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
<td>VOC (less H2O &amp; exempt):</td>
<td>3 g/l (calculated)</td>
</tr>
<tr>
<td>pH</td>
<td>5 - 8</td>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>212° F (100° C)</td>
<td>Flammability (solid, gas):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;200° F (Test method: Closed Cup)</td>
<td>Flammable Limits (LEL):</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Density: 1.03 g/ml
Specific gravity: 1.03 [Water = 1]
Weight per gallon: 8.6 lbs
Viscosity: 50 – 200 cps [Brookfield]
Solubility (H2O): Complete
Solubility (non-water): No data available

Vapor pressure: No data available
Vapor density: No data available

Viscosity: 50 – 200 cps [Brookfield]

Weight per gallon: 8.6 lbs
Solubility (H2O): Complete
Solubility (non-water): No data available

Section 10: Stability and Reactivity

Reactivity: This material may be reactive with certain agents under certain conditions – see remaining information in this section.

Chemical stability: Stable
Possibility of hazardous reactions: Hazardous polymerization will not occur.
Conditions to avoid: Heat
Incompatible materials: Reactive metals, strong acids, strong oxidizing agents

Hazardous decomposition products: None known. Refer to section 5 for hazardous decomposition products during combustion.

Section 11: Toxicological Information

Information on toxicological effects, Based on component information, this material may produce the following health effects:

Inhalation: Respiratory tract irritation: signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Skin contact: Contact with skin during product use is not expected to result in significant irritation.
Allergic skin reaction (non-photo induced): signs/symptoms may include redness, swelling, blisters, and itching.
Eye contact: Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
Ingestion: Gastro-intestinal irritation: signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 estimated to be &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 &gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

Skin Corrosion / Irritation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Rabbit</td>
<td>Slight irritation</td>
</tr>
</tbody>
</table>

Serious Eye Damage / Irritation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Rabbit</td>
<td>No significant irritation</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Rabbit</td>
<td>Slight irritation</td>
</tr>
</tbody>
</table>

Skin Sensitization

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Guinea Pig</td>
<td>Not sensitizing</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Guinea Pig</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

Photosensitization

Either no data are currently available or the data are not sufficient for classification.

Respiratory sensitization

Either no data are currently available or the data are not sufficient for classification.

Germ cell mutagenicity

Either no data are currently available or the data are not sufficient for classification.

Carcinogenicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Mouse</td>
<td>Some positive data exist, but the data are not sufficient for classification.</td>
</tr>
</tbody>
</table>

Reproductive Toxicity

Reproductive and/or developmental effects

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Not toxic to female reproduction</td>
<td>Rat</td>
<td>NOAEL 2,000 mg/kg/day</td>
<td>2 generations</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Not toxic to male reproduction</td>
<td>Rat</td>
<td>NOAEL 2,000 mg/kg/day</td>
<td>2 generations</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Not toxic to development</td>
<td>Rat</td>
<td>NOAEL 2,000 mg/kg/day</td>
<td>2 generations</td>
</tr>
</tbody>
</table>

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Either no data are currently available or the data are not sufficient for classification.
Specific Target Organ Toxicity – repeated exposure

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Respiratory system</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
<td>Rat</td>
<td>NOAEL 3.91 mg/l</td>
<td>14 days</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Heart/liver/kidney and/or bladder</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL 3.91 mg/l</td>
<td>14 days</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Ingestion</td>
<td>Endocrine system/hematopoietic system/liver/kidney and/or bladder</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL 10,000 mg/kg/day</td>
<td>2 years</td>
</tr>
</tbody>
</table>

Aspiration hazard

Either no data are currently available or the data are not sufficient for classification.

Section 12: Ecological Information

Toxicity – Aquatic toxicity of components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Species</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Oncorhynchus mykiss</td>
<td>96 hr LC50: 50mg/l</td>
</tr>
<tr>
<td>Glycerin</td>
<td>Daphnia magna</td>
<td>24 hr EC50: &gt;5000mg/l</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Fish (Pimephales promelas)</td>
<td>96 hr LC50: &gt;40,000 ppm</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Fish (Lepomis macrochirus)</td>
<td>96 hr LC50: &gt;10,000 ppm</td>
</tr>
<tr>
<td>Vinyl acetate-vinyl alcohol polymer</td>
<td>Bacteria (Photobacterium phosphoreum)</td>
<td>Microtox Method, EC50: &gt;50,000 ppm</td>
</tr>
</tbody>
</table>

Persistence and degradability

Vinyl acetate-vinyl alcohol polymer has been reported to be substantially biodegraded in several test systems after a lag time for microbial acclimation. Almost 100% degradation of 30-day BOD with an acclimated culture can be reached.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Section 13: Disposal Considerations

Disposal methods

Avoid disposal. Completely utilize product, if possible. Dispose unused product and container in accordance with local, regional, national, and international regulations. Incinerate unused product in a permitted waste incineration facility. As a disposal alternative, dispose of waste product in a permitted industrial waste facility.

Section 14: Transport Information

US DOT information: Not regulated as a hazardous material.

TDG information: Not regulated as a dangerous good.

IMDG information: Not regulated as a dangerous good.

IATA information: Not regulated as a dangerous good.

Transportation during cold weather

This product is freeze-thaw stable and will function properly if it is frozen and then thawed. However, whenever possible, minimize the number of freeze cycles to which the product is exposed during transportation.

Section 15: Regulatory Information

U.S. Federal Regulations

Chemical inventory: All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

General information: No additional information available.

Component analysis: None of the product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute health: No Chronic health: No Fire: No Pressure: No Reactive: No

State Regulations

General information: Other state regulations may apply. Check individual state requirements.

Component analysis: The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>56-81-5</td>
<td>Glycerin</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

Canadian WHMIS information

Chemical inventory: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

General information: This product is a controlled product under the Canadian Workplace Hazardous Materials Information System.
Component analysis: This product does not contain substances required to be disclosed according to the Canada WHMIS Ingredient Disclosure List.

Section 16: Other Information

Disclaimer: For industrial use only. Reasonable care has been taken in the preparation of this information and is believed to be accurate as of the date issued. Seller does not suggest or guarantee that any hazards listed herein are the only ones which exist and makes no warranty of any kind, express or implied, concerning the safe use of this material in user's process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

Seller makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.