



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: SOF-SEAL® COMPONENT A **Part Number:** 4020000
Manufacturer: W. R. Meadows®, Inc. **Address:** 300 Industrial Drive
Hampshire, Illinois 60140
Telephone: (847) 214-2100 **In case of emergency, dial (800) 424-9300 (CHEMTREC)**
Revision Date: 9/9/2014
Product Use: Cold-Applied Low Modulus Sealant

SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

| HMIS | | HAZARD STATEMENTS |
|---------------------|---|--|
| Health | 2 | WARNING! |
| Flammability | 1 | Causes skin, eye, respiratory irritation. |
| Reactivity | 1 | May cause an allergic skin/respiratory reaction. |
| Personal Protection | | Harmful if inhaled. |

PRECAUTIONARY STATEMENTS
Avoid direct contact/breathing vapors.
Wear appropriate personal protective equipment.
Use only in well-ventilated areas.



SECTION 3: HAZARDS COMPONENTS

| Chemical Name: | CAS Number | % by Weight | SARA 313 | Vapor Pressure (mm Hg@20°C) | LEL (@25°C) |
|--------------------------------------|------------|-------------|----------|-----------------------------|-------------|
| 1. Polymeric Diphenylmethane | 9016-87-9 | 50-60 | No | N/A | N/A |
| 2. 4,4'-Diphenylmethane Diisocyanate | 101-68-8 | 35-45 | Yes | N/A | N/A |
| 3. 2,4'-Diphenylmethane Diisocyanate | 5873-54-1 | 1-5 | No | N/A | N/A |

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313." *N/A: Not Applicable*

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen minutes. Product may react with moisture from the eye and may be difficult to remove. Seek medical attention.
SKIN CONTACT: Remove contaminated shoes/clothing. Wash affected areas with mild soap and water. If irritation develops/persists, seek medical attention.
INHALATION: Move victim from exposure source and into fresh air. Treat symptomatically. If symptoms persist, seek medical attention.
INGESTION: Do not induce vomiting. Rinse mouth with water. Seek medical attention.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: 388° F (ASTM D 93)
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray for large fires.
CHEMICAL/COMBUSTION HAZARDS: Potentially cyanide containing compounds, carbon monoxide, carbon dioxide, and incomplete combustion products.
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Do not reseal contaminated containers as pressure build-up may rupture them. Avoid direct contact. Responders should utilize full bunker gear and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate personnel as necessary. Absorb spilled material with sawdust or other absorbent and place in open top containers. Do not make pressure tight. Transport to a well-ventilated area (outdoors) and treat with a neutralizing solution consisting of water and a 3-8% ammonium hydroxide solution or a 5-10% sodium carbonate solution. About ten parts of neutralizer per part of spill while mixing. Allow to stand forty-eight hours allowing evolved carbon dioxide gas to escape.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. Avoid sources of moisture contamination.
SAFE STORAGE: Store in cool, dry location. Keep containers closed when not in use. Store between 50 and 86 degrees F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name: | PEL | PEL/CEILING | OSHA PEL/STEL | SKIN | ACGIH TWA | TLV/CEILING | TLV/STEL | SKIN |
|--------------------------------------|----------|-------------|---------------|------|-----------|-------------|----------|------|
| 1. Polymeric Diphenylmethane | N/E | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| 2. 4,4'-Diphenylmethane Diisocyanate | 0.02 ppm | N/E | N/E | No | 0.005 ppm | N/E | N/E | No |
| 3. 2,4'-Diphenylmethane Diisocyanate | N/E | N/E | N/E | N/E | N/E | N/E | N/E | N/E |

N/E: Not Established

ENGINEERING CONTROLS: Not required under normal use conditions.
PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical resistant gloves.

SAFETY DATA SHEET

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| Date of Preparation: 9/9/14 | | Page 2 of 2 | 4020000 |
| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES | | | |
| BOILING POINT: 406 (Approximate) | VAPOR DENSITY: >1 (Air=1) | % VOLATILE BY VOLUME: Not Established | |
| EVAPORATION RATE: <1 (Ether=1) | pH LEVEL: Not Applicable | % VOLATILE BY WEIGHT: Not Established | |
| WEIGHT PER GALLON: 10.33 | PRODUCT APPEARANCE: Brown Liquid | VOC CONTENT: Not Established | |
| SECTION 10: STABILITY/REACTIVITY | | | |
| STABILITY: Stable. | | HAZARDOUS POLYMERIZATION: May occur. | |
| CONDITIONS AND MATERIALS TO AVOID: Water, amines, strong bases, alcohols, copper alloys. | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, oxides of nitrogen, isocyanate, isocyanic acid, and incomplete combustion products. | | | |
| SECTION 11: TOXICOLOGICAL INFORMATION | | | |
| EYE CONTACT: Direct contact causes irritation with reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapors/aerosols may cause irritation. | | | |
| SKIN CONTACT: Direct contact may result in mild to moderate irritation. Prolonged contact may result in skin irritation. Sensitization reactions are possible. | | | |
| INHALATION: Exposure may produce irritation to the nose, throat, respiratory tract, and mucous membranes. After repeated overexposures or exposure to a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma) that will cause them to react to a later exposure to isocyanate at levels below the TLV. Isocyanate sensitization may be temporary or permanent. Once sensitized, an individual may experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Once an individual is diagnosed as being sensitized to isocyanate, no further exposure can be permitted. Chronic overexposure to isocyanate has also been reported to cause lung damage (including decreased lung function) which may be permanent. Acute overexposure to isocyanate may also lead to bronchitis, bronchial spasm, and pulmonary edema. These effects are usually reversible. Chemical or hypersensitive pneumonitis with flu-like symptoms have also been reported. These symptoms can be delayed up to several hours. | | | |
| INGESTION: May cause irritation. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. | | | |
| SIGNS AND SYMPTOMS: Symptoms of eye irritation include pain, tearing, redness, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Lung sensitization results in asthma-like symptoms: chest tightness, shortness of breath, wheezing, and coughing. These symptoms may be immediate or delayed up to several hours. | | | |
| AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by product exposure. Persons with asthmatic-type conditions, chronic bronchitis, or other chronic respiratory diseases, recurrent skin eczema, sensitization, or allergies should be excluded from working with isocyanates. | | | |
| OTHER HEALTH EFFECTS: None recognized. | | | |
| SECTION 12: ECOLOGICAL INFORMATION | | | |
| ECOTOXICITY: N/E | DEGRADABILITY: N/E | BIOACCUMULATIVE POTENTIAL: N/E | |
| SOIL MOBILITY: N/E | OTHER ADVERSE EFFECTS: N/E | | |
| SECTION 13: WASTE DISPOSAL INFORMATION | | | |
| WASTE DISPOSAL INFORMATION: Liquid material should be incinerated as a hazardous waste. | | | |
| SECTION 14: TRANSPORTATION INFORMATION | | | |
| HAZARDOUS/NON-HAZARDOUS MATERIAL: Hazardous Material (Limited Quantity) | | | |
| UN NUMBER: 3082 | HAZARD CLASS: 9 | PACKING GROUP: III | |
| UN PROPER SHIPPING NAME: Other Regulated Substances, Liquid, N.O.S. (4,4'-Diphenylmethane Diisocyanate). | | | |
| ENVIRONMENTAL HAZARDS: None recognized. | | | |
| BULK TRANSPORTATION INFORMATION: Not applicable. Product not shipped in bulk configuration. | | | |
| SPECIAL PRECAUTIONS: None. | | | |
| SECTION 15: REGULATORY INFORMATION | | | |
| OTHER REGULATORY CONSIDERATIONS: None. | | | |
| SECTION 16: OTHER INFORMATION | | | |
| PREPARATION DATE: | 9/9/2014 | | |
| PREPARED BY: | Dave Carey | | |

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.



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 Hampshire, Illinois 60140
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SECTION 2: HAZARDS IDENTIFICATION/EXPOSURE LIMITS

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|--|------|--|--------|---|--------------|---|------------|---|---------------------|--|--|
| <table border="0"> <tr><td>HMIS</td><td></td></tr> <tr><td> Health </td><td> 1 </td></tr> <tr><td> Flammability </td><td> 2 </td></tr> <tr><td> Reactivity </td><td> 0 </td></tr> <tr><td> Personal Protection </td><td> </td></tr> </table> | HMIS | | Health | 1 | Flammability | 2 | Reactivity | 0 | Personal Protection | | HAZARD STATEMENTS WARNING! Flammable liquid and vapor. Causes skin, eye, respiratory irritation. Suspected of causing genetic defects. Causes damage to liver, kidneys, lungs, and blood. Harmful if inhaled. May be fatal if ingested and enters airway. PRECAUTIONARY STATEMENTS Use only in well-ventilated areas. Avoid breathing vapors/direct contact. Store in well-ventilated location. Wear appropriate personal protective equipment. Keep away from ignition sources. Control vapors in confined spaces utilizing mechanical ventilation. |
| HMIS | | | | | | | | | | | |
| Health | 1 | | | | | | | | | | |
| Flammability | 2 | | | | | | | | | | |
| Reactivity | 0 | | | | | | | | | | |
| Personal Protection | | | | | | | | | | | |



SECTION 3: HAZARDS COMPONENTS

| Chemical Name: | CAS Number | % by Weight | SARA 313 | Vapor Pressure (mm Hg@20°C) | LEL (@25°C) |
|-------------------------|------------|-------------|----------|-----------------------------|-------------|
| 1. Xylene | 1330-20-7 | 1-5 | Yes | 6.6 | 1.1 |
| 2. Petroleum Asphalt | 8052-42-4 | 25-30 | No | N/A | N/A |
| 3. Limestone | 1317-65-3 | 25-30 | No | N/A | N/A |
| 4. Petroleum Distillate | 68477-30-5 | 5-10 | No | N/A | N/A |

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313." *N/A: Not Applicable*

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with water for fifteen minutes. If symptoms persist, seek medical attention.
SKIN CONTACT: Wash affected areas with mild soap and water. Do not use petroleum solvents to remove. If symptoms persist, seek medical attention.
INHALATION: If symptoms persist move victim from exposure source and into fresh air. Treat symptomatically. If symptoms persist, seek medical attention.
INGESTION: Not anticipated to be an exposure route. Dilute by giving victim water or milk to drink. Do not induce vomiting. If vomiting spontaneously occurs keep the victim's head below the hips to prevent lung aspiration. Seek immediate medical attention.

SECTION 5: FIRE AND EXPLOSIVES HAZARDS

FLASHPOINT: 130 degrees F
EXTINGUISHING MEDIA: Water fog, foam, dry chemical, or carbon dioxide.
CHEMICAL/COMBUSTION HAZARDS: Carbon monoxide, carbon dioxide, and incomplete combustion products.
PRECAUTIONS/PERSONAL PROTECTIVE EQUIPMENT: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up, resulting in container rupture. Fire fighters should utilize full bunker ensemble when responding to a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Evacuate unnecessary personnel. Dike and contain. Remove/extinguish ignition sources. Product is thick and will not flow quickly when spilled. Wear appropriate personal protective equipment. Place spill materials in sealed/marked containers for disposal.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PROCEDURES: Avoid direct contact. Avoid ignition sources. For exterior use only.
SAFE STORAGE: Keep containers closed when not in use. Store away from ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name: | OSHA | | | | ACGIH | | | |
|----------------|---------|-------------|----------|------|---------|-------------|----------|------|
| | PEL | PEL/CEILING | PEL/STEL | SKIN | TWA | TLV/CEILING | TLV/STEL | SKIN |
| 1. Xylene | 100 ppm | N/E | N/E | N/E | 100 ppm | N/E | 150 ppm | N/E |

SAFETY DATA SHEET

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| Date of Preparation: 9/9/14 | | Page 2 of 2 | | | | 4020000 | | | |
| Section 8 continued | | | | | | | | | |
| 2. Petroleum Asphalt | 5 mg/m ³ * | N/E | N/E | N/E | 5 mg/m ³ * | N/E | N/E | N/E | N/E |
| 3. Limestone+ | N/A | N/A | N/A | No | N/A | N/A | N/A | N/A | No |
| 4. Petroleum Distillate | N/E | N/E | N/E | N/E | N/E | N/E | N/E | N/E | N/E |
| +: Limestone is in solution. No exposure anticipated unless the product is dried/abraded. *: Asphalt Fumes N/E: Not Established | | | | | | | | | |
| ENGINEERING CONTROLS: Use with adequate ventilation. | | | | | | | | | |
| PERSONAL PROTECTIVE EQUIPMENT: Safety glasses, chemical-resistant gloves. | | | | | | | | | |
| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES | | | | | | | | | |
| BOILING POINT: Not Established | | VAPOR DENSITY: >1 (Air=1) | | | % VOLATILE BY VOLUME: Not Established | | | | |
| EVAPORATION RATE: < 1 (Ether=1) | | pH LEVEL: Not Applicable | | | % VOLATILE BY WEIGHT: 5.00 (Approximate) | | | | |
| WEIGHT PER GALLON: 9.98 | | PRODUCT APPEARANCE: Black Liquid | | | VOC CONTENT: 46 g/L | | | | |
| SECTION 10: STABILITY/REACTIVITY | | | | | | | | | |
| STABILITY: Stable. | | HAZARDOUS POLYMERIZATION: Will not occur. | | | | | | | |
| CONDITIONS AND MATERIALS TO AVOID: Oxidizing agents. | | | | | | | | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen/sulfur. | | | | | | | | | |
| SECTION 11: TOXICOLOGICAL INFORMATION | | | | | | | | | |
| EYE CONTACT: Move victim from exposure source. Flush eyes with water for fifteen minutes. If symptoms persist, seek medical attention. | | | | | | | | | |
| SKIN CONTACT: Wash affected areas with mild soap and water. If symptoms persist, seek medical attention. | | | | | | | | | |
| INHALATION: Exposure to excessive vapor concentrations may result in transient central nervous system depression (headache, fatigue, drowsiness, loss of coordination). Intentional misuse by deliberately concentrating/inhaling vapors may be harmful or fatal. Repeated/prolonged occupational exposures to solvents may cause permanent brain and nervous system damage. | | | | | | | | | |
| INGESTION: Not anticipated to be an exposure route. Ingestion may cause irritation of the gastrointestinal tract. | | | | | | | | | |
| SIGNS AND SYMPTOMS: Symptoms of eye irritation include tearing, reddening, and swelling. Symptoms of skin irritation include redness and swelling. Gastrointestinal irritation symptoms include nausea, vomiting, and abdominal discomfort. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of transient central nervous system depression include: headache, fatigue, drowsiness, dizziness, and loss of coordination. | | | | | | | | | |
| AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye, and respiratory disorders may be aggravated by product exposure. | | | | | | | | | |
| OTHER HEALTH EFFECTS: Some asphalts and aromatic oils may contain polycyclic aromatic hydrocarbons some of which have been shown to cause skin cancer in laboratory animals under conditions of poor personal hygiene. Intermittent or occasional contact is not expected to present a cancer hazard as long as good personal hygiene measures are followed. Fumes/vapors from these materials may also contain polycyclic aromatic hydrocarbons, so inhalation of these materials should be avoided. Both xylene and aromatic oils have been found to cause the following effects on laboratory animals: liver/kidney effects, blood abnormalities, effects on the spleen, testes, nervous system, adrenals, cardiovascular system, and harm to the fetus. The relevance to humans is unknown. | | | | | | | | | |
| SECTION 12: ECOLOGICAL INFORMATION | | | | | | | | | |
| ECOTOXICITY: N/E | | DEGRADABILITY: N/E | | | BIOACCUMULATIVE POTENTIAL: N/E | | | | |
| SOIL MOBILITY: N/E | | OTHER ADVERSE EFFECTS: N/E | | | | | | | |
| SECTION 13: WASTE DISPOSAL INFORMATION | | | | | | | | | |
| WASTE DISPOSAL INFORMATION: Product will be classified as a hazardous waste (D001). Suitable for fuel blending. | | | | | | | | | |
| SECTION 14: TRANSPORTATION INFORMATION | | | | | | | | | |
| HAZARDOUS/NON-HAZARDOUS MATERIAL: Not regulated by domestic ground shipment. | | | | | | | | | |
| UN NUMBER: None. | | HAZARD CLASS: None. | | | PACKING GROUP: None. | | | | |
| UN PROPER SHIPPING NAME: None. | | | | | | | | | |
| ENVIRONMENTAL HAZARDS: None recognized. | | | | | | | | | |
| BULK TRANSPORTATION INFORMATION: Not applicable. Product not shipped in bulk configuration. | | | | | | | | | |
| SPECIAL PRECAUTIONS: None. | | | | | | | | | |
| SECTION 15: REGULATORY INFORMATION | | | | | | | | | |
| OTHER REGULATORY CONSIDERATIONS: None. | | | | | | | | | |
| SECTION 16: OTHER INFORMATION | | | | | | | | | |
| PREPARATION DATE: 9/9/2014 | | | | | | | | | |
| PREPARED BY: Dave Carey | | | | | | | | | |

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of this product described herein.