



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>Product name</b>	G66900 MVP4
<b>MSDS name</b>	MVP4
<b>CAS number</b>	Mixture
<b>Product use</b>	Moisture Vapor Retarding Membrane
<b>Generic description</b>	Self Leveling Moisture Cure Urethane
<b>Manufacturer</b>	Bostik, Inc. 211 Boston Street Middleton , MA 01949 USA
<b>24 hour emergency assistance</b>	Telephone: 1-800-227-0332
<b>General assistance</b>	Telephone: 1-978-777-0100
<b>MSDS assistance</b>	Telephone: 1-414-607-1407

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Stoddard solvent	8052-41-3	5 - 10
Methylene Diphenyl Isocyanate (MDI)	101-68-8	0.5 - 1.5

### 3. HAZARDS IDENTIFICATION

<b>Emergency overview</b>	This product contains materials that on exposure could cause irritation and minor residual injury even if no treatment is provided. This product is stable under normal conditions but will react slightly with water to release some heat and carbon dioxide. The reaction is not violent.
<b>Potential health effects</b>	
<b>Skin</b>	Skin Contact: Skin contact may cause irritation. A component of this product is a potential skin sensitizer. Repeated skin contact may cause a persistent irritation or dermatitis.
<b>Eyes</b>	Eye Contact: May cause irritation with temporary redness with stinging and tearing.
<b>Inhalation</b>	Inhalation: Vapors and mists from this product are respiratory irritants. Repeated inhalation may result in lung damage. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with dryness of the throat, tightness of the chest, and difficulty in breathing.
<b>Ingestion</b>	Ingestion: Exposure is unlikely. This product can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
<b>Target organs</b>	The lungs may be targeted and damaged by components of this product. Skin. Eyes.

### 4. FIRST AID MEASURES

<b>First aid</b>	
<b>Skin</b>	For skin contact, wash immediately with soap and water. If irritation persists, get medical attention. See Notes to Physician.
<b>Eye</b>	Immediately flush with plenty of water for at least 15 minutes, holding eyelids open at all times. Get medical attention immediately. See Notes to Physician.
<b>Inhalation</b>	Remove to fresh air. Get medical attention if symptoms develop. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.
<b>Ingestion</b>	No harmful effect is anticipated. If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Notes to physician</b>	A component of this product is a potential skin sensitizer. Treat symptomatically as for contact dermatitis. Persons with hypersensitivities to isocyanates should be removed from exposure to any isocyanates. May aggravate existing heart conditions, particularly those with abnormal heart rhythms.

## 5. FIRE FIGHTING MEASURES

Extinguishing media	Use dry chemical, carbon dioxide, or foam. Use water spray on large fires.
Dust explosion hazard	None Known
Sensitivity to mechanical impact	None Known
Sensitivity to static discharge	None Known
Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus.
Flash point	133 °F (56.1 °C)

## 6. ACCIDENTAL RELEASE MEASURES

Emergency action	Appropriate safety measures and protective equipment should be used. See Section 8.
Containment	Isolate spill area. Stop discharge if safe to do so. Stop material from contaminating soil or from entering sewers or water streams. Scrape up polyurethane and deposit into appropriate containers.

## 7. HANDLING & STORAGE

For Commercial Use Only - Not Packaged or Labeled for Home Use!

Handling	Avoid contact with skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation.
Storage	Store in a clean, dry area. Keep containers closed.
Empty container precaution	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Use with adequate ventilation.
Eye protection	Wear safety glasses with side shields.
Skin and body protection	Wear appropriate clothing to minimize skin contact with this product.
Respiratory protection	Not normally needed.
General	Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

### Exposure limits

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Methylene Diphenyl Isocyanate (MDI)	101-68-8	<u>0.005 ppm TWA</u>
Stoddard solvent	8052-41-3	<u>100 ppm TWA</u>

#### OSHA - Vacated PELs - Ceilings

Methylene Diphenyl Isocyanate (MDI)	101-68-8	<u>0.02 ppm Ceiling; 0.2 mg/m3 Ceiling</u>
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#### OSHA - Vacated PELs - TWAs

Stoddard solvent	8052-41-3	<u>100 ppm TWA; 525 mg/m3 TWA</u>
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## 9. PHYSICAL & CHEMICAL PROPERTIES

Solubility (H2O)	0 %
Target solids	91.7 %
pH	N/A
Density	1.462 g/cc
Odor	Mild
Color	Gray
Physical state	Paste
Freeze protect	No
VOC (Volatile Organic Compounds)	126 g/l

## 10. STABILITY & REACTIVITY

<b>Hazardous reactions/decomposition products</b>	If product is burned carbon monoxide, carbon dioxide, oxides of nitrogen, amines, isocyanate-containing compounds and other unknown products may be produced.
<b>Hazardous polymerization</b>	Not likely to occur.
<b>Conditions to avoid</b>	Avoid contact with Strong Oxidizers and Strong Acids.
<b>Stability</b>	Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

### LD50

#### Toxicology Data - Selected LD50s and LC50s

Methylene Diphenyl Isocyanate (MDI) 101-68-8 Oral LD50 Rat: 9200 mg/kg

<b>Carcinogenicity</b>	This product contains Methylene Diphenyl Isocyanate (MDI). MDI is not listed by the NTP, IARC or regulated by OSHA as a carcinogen. However, it has been shown to alter cells in certain experiments. Although inconclusive, these cellular changes are thought to indicate potential carcinogenicity.
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## 12. ECOLOGICAL INFORMATION

<b>VOC (Volatile Organic Compounds)</b>	126 g/l
<b>Ecotoxicological information</b>	Organic solvents produce slight to moderate toxicity to aquatic life. Insufficient data exists to evaluate the effect on plants, birds or land animals.

## 13. DISPOSAL CONSIDERATIONS

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

<b>Waste disposal</b>	This product is not known to be regulated under RCRA regulations but contains SARA regulated substances. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.
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## 14. TRANSPORT INFORMATION

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. REGULATORY INFORMATION

This MSDS is prepared and distributed pursuant to the Federal Hazard Communication Standard, 29 CFR 1910.1200.

**Federal regulations** All components are on the U.S. EPA TSCA Inventory List.

#### CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Methylene Diphenyl Isocyanate (MDI) 101-68-8 5000 lb final RQ; 2270 kg final RQ

#### CERCLA/SARA - Section 313 - Emission Reporting

Methylene Diphenyl Isocyanate (MDI) 101-68-8 1.0 % de minimis concentration (Listed under Chemical Category N120, Diisocyanates)

**State regulations** If this product contains any ingredients listed under California Proposition 65, they will be noted below:

#### California - Proposition 65 - Carcinogens List

Folpet 133-07-3 carcinogen, initial date 1/1/89

**International regulations**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS) Class B Division 3, Class D Division 2 Sub-division A and Class D Division 2 Sub-division B.

**HMIS Ratings**

Health: 1  
Flammability: 2  
Physical hazard: 0  
Personal protection: B

**SARA 311/312 HAZARD CATEGORIES**

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**WHMIS status**

Controlled

**WHMIS labeling****WHMIS classification**

D2A - Other Toxic Effects-VERY TOXIC  
D2B - Other Toxic Effects-TOXIC

## 16. OTHER INFORMATION

**Disclaimer**

The data in this MSDS has been compiled from publicly available sources. This data relates only to the designated product and not to the use of said product in combination with other materials. 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. Responsibility for proper precautions and safe use of the product lies with the user. All data in this MSDS is typical of the product as a whole, and does not represent any individual lot or batch, therefore, Bostik, Inc. makes no warranty about the accuracy of the data herein and assumes no liability for the use of such data. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

**Issue date**

10/13/2005

**Prepared by**

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