



# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product identifier**

**Product Name** SB-222 Black  
**Other means of identification**  
**Product Code(s)** Reactive Foaming Urethane  
**Product Type**

**Recommended use of the chemical and restrictions on use**

**Recommended Use** For industrial use only.  
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**  
Seal Bond  
1251 E. Mt. Garfield Rd.  
Norton Shores, MI 49444

**Company Phone Number**  
800-232-4144

**Emergency telephone number**  
**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

**Label elements**

**Emergency Overview**

**Signal Word** Danger

**Hazard Statements**

Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.



**Appearance** Black

**Physical state** Liquid

**Odor** Slight

#### **Precautionary Statements**

##### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray.

##### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention. Specific treatment (see Section 4 on this SDS).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

##### **Precautionary Statements - Storage**

Keep from freezing.

##### **Precautionary Statements - Disposal**

Dispose of in accordance with federal, state and local regulations.

#### **Hazards not otherwise classified (HNOC)**

Vapors may be irritating to eyes, nose, throat, and lungs. May be harmful if inhaled. May cause irritation to mucous membranes and respiratory tract.

#### **Supplementary Information**

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding, or other abrasive processes. This product contains < 1% carbon black, which is listed as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). A risk assessment should be performed to evaluate if respirable dust is generated when using this product.

#### **Other information**

Unknown acute toxicity

3.5 % of the mixture consists of ingredient(s) of unknown toxicity

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substance**

<b>Chemical name</b>	<b>CAS No.</b>	<b>Weight-%</b>	<b>Trade Secret</b>
Methylene diphenyl diisocyanate (MDI)	101-68-8	1 - 5	*
Morpholine, 4,4-(oxydi-2,1-ethanediyl)bis-	6425-39-4	1 - 5	*
Carbon black	1333-86-4	0.1 - 1.0	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

#### **Description of first aid measures**

##### **General Advice**

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

##### **Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact**

Wash off immediately with soap and plenty of water. Take off contaminated clothing and wash before reuse. In the case of skin irritation or allergic reactions see a physician.

**Inhalation**

If symptoms persist, call a physician.

**Ingestion**

None under normal use conditions. Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most Important Symptoms and Effects**

Asthma-like and/ or skin allergy-like symptoms. Hives. Itching. Signs and symptoms may include coughing, gasping, choking and difficulty breathing. Coughing and/ or wheezing. Rashes.

**Notes to Physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Foam, Dry chemical or CO2

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical**

Do not allow run-off from fire-fighting to enter drains or water courses. May cause sensitization by inhalation and skin contact. The product causes irritation of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Dried product is capable of burning.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Use personal protection equipment. Ensure adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**Environmental precautions**

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Cleaning Up**

Prevent environmental discharge consistent with regulatory requirements. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Where possible allow molten material to solidify naturally. Pick up and transfer to properly labeled containers. Neutralize material and area with decontamination solution (95% water, 2% detergent, 3% concentrated ammonium hydroxide) letting stand for at least 15 minutes. May evolve CO2. Loosely cover for 24-48 hrs to allow CO2 to escape before disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling**

Use personal protection equipment. Avoid contact with eyes, skin and clothing. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or

smoke when using this product. Do not breathe vapor or mist. Do not breathe dust. Take off contaminated clothing and wash before reuse. Do not breathe (dust, vapor, mist, gas). Isocyanates are known to be strong sensitizers. May cause sensitization by inhalation and skin contact. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a cool, well-ventilated place. Keep from freezing. Will slowly evolve carbon dioxide if exposed to moisture.

**Incompatible Products** Alcohols. Acids. Bases. Amines.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - WEEL
Methylene diphenyl diisocyanate (MDI) 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm (vacated) Ceiling: 0.2 mg/m <sup>3</sup> Ceiling: 0.02 ppm Ceiling: 0.2 mg/m <sup>3</sup>	IDLH: 75 mg/m <sup>3</sup> Ceiling: 0.020 ppm Ceiling: 0.2 mg/m <sup>3</sup> TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup>	-
Carbon black 1333-86-4	TWA: 3 mg/m <sup>3</sup> inhalable particulate matter	TWA: 3.5 mg/m <sup>3</sup> (vacated) TWA: 3.5 mg/m <sup>3</sup>	IDLH: 1750 mg/m <sup>3</sup> TWA: 3.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>	-

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Avoid contact with eyes. Eye protection.

**Skin and Body Protection** Wear protective gloves/protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off contaminated clothing and wash before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Slight
<b>Appearance</b>	Black	<b>Odor threshold</b>	No data available
<b>Color</b>	Black		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No data available	
Boiling Point / Boiling Range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability	No information available	
Flammability Limit in Air		
Upper flammability or explosive limits	No information available	

<b>Lower flammability or explosive limits</b>	No information available
<b>Vapor pressure</b>	Negligible
<b>Relative vapor density</b>	No information available
<b>Specific gravity</b>	1.1 at 25 °C
<b>Water Solubility</b>	Immiscible in water
<b>Solubility in other solvents</b>	Specific test data for the substance or mixture is not available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	350,000 cps
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

#### Other information

<b>Softening Point</b>	Specific test data for the substance or mixture is not available
<b>Solids</b>	100%

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions. Decomposes slowly on exposure to water. Evolves CO<sub>2</sub>.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

Excessive heat.

#### Incompatible materials

Alcohols. Acids. Bases. Amines.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Isocyanates.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

<b>Inhalation</b>	Avoid breathing vapors or mists. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause irritation of respiratory tract. Irritating to mucous membranes.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. May cause irritation.
<b>Ingestion</b>	Not an expected route of exposure. May be harmful if swallowed.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methylene diphenyl diisocyanate (MDI) 101-68-8	= 31600 mg/kg ( Rat )  > 10000 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	= 369 mg/m <sup>3</sup> ( Rat ) 4 h = 490 mg/m <sup>3</sup> ( Rat ) 4 h
Morpholine, 4,4-(oxydi-2,1-ethanediyil)bis- 6425-39-4	300 - 2000 mg/kg ( Rat )	= 3038 mg/kg ( Rabbit )	-
Carbon black 1333-86-4	> 15400 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms**

Specific test data for the substance or mixture is not available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Sensitization**

May cause sensitization in susceptible persons.

**Mutagenic Effects**

Specific test data for the substance or mixture is not available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen. Polymeric MDI (pMDI) has been classified as IARC Group 3, "Not classifiable as to its carcinogenicity to humans" (1999) indicating there is inadequate evidence available to describe the carcinogenic potential in humans. In chronic exposure studies in rodents, pMDI produced tumors only at the highest exposure level of 6 mg/m<sup>3</sup>, which is significantly above the TLV for MDI (0.051mg/m<sup>3</sup>). Based on the weight of evidence, when used according the manufacturer's recommendations, and exposure levels are maintained below the TLV, a determination of not classified for carcinogenicity is justified. If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding, or other abrasive processes. This product contains < 1% carbon black, which is listed as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). A risk assessment should be performed to evaluate if respirable dust is generated when using this product.

Chemical name	ACGIH	IARC	NTP	OSHA
Methylene diphenyl diisocyanate (MDI) 101-68-8	-	Group 3	-	-
Carbon black 1333-86-4	A3	Group 2B	-	X

**Reproductive Toxicity**

No information available

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

Causes damage to organs through prolonged or repeated exposure if inhaled.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	17,094.30
ATEmix (dermal)	51,460.30
ATEmix (inhalation-dust/mist)	33.3333

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Methylene diphenyl diisocyanate (MDI) - 101-68-8	EC0: =1640mg/L (72h, Scenedesmus subspicatus)	LC0: >1000mg/L (96h, Brachydanio rerio)	EC50: >1000mg/L (24h, Daphnia magna)
Morpholine, 4,4-(oxydi-2,1-ethanediyl)bis- - 6425-39-4	Not applicable	LC50: >2150mg/L (96h, Danio rerio)	Not applicable

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical name	Partition coefficient
Methylene diphenyl diisocyanate (MDI) 101-68-8	4.51
Morpholine, 4,4-(oxydi-2,1-ethanediyl)bis- 6425-39-4	0.5

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

## Disposal methods

**Disposal Methods** Dispose of in accordance with federal, state and local regulations.

**Contaminated Packaging** Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

**DOT** Not Regulated (Single Container < RQ)

**IATA** Not regulated

**IMDG** Not regulated

## 15. REGULATORY INFORMATION

**TSCA 8(b)** All components are listed or exempt

**DSL** All components are listed or exempt

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	Weight-%	SARA 313 - Threshold Values %
Methylene diphenyl diisocyanate (MDI) - 101-68-8	1 - 5	1.0

### **SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

### **U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

Chemical name	Weight-%	HAPS data
Methylene diphenyl diisocyanate (MDI) 101-68-8	1 - 5	Present

### **CWA (Clean Water Act)**

See information supplied by the manufacturer

### **CERCLA**

See information supplied by the manufacturer

## US State Regulations

### **California Proposition 65**

WARNING: This product can expose you to one or more chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). See section 3 of the SDS for Proposition 65 substances present at or above 0.1 weight percent. Please contact the Regulatory Department if additional information is required.

### U.S. EPA Label Information

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 2*	Flammability 1	Physical hazards 0	Personal Precautions X

Revision date 16-Oct-2025

### Revision Note

No information available

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**