



# Safety Data Sheet

**GREENFUSION**  
Bostik Green Fusion

**Revision Date** 12-May-2016  
**Supersedes Date:** No information available  
**Version** 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product Identifier

**Product Name** Bostik Green Fusion  
**Product Code** GREENFUSION

**Product(s) Covered** See section 16 for more information

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

**Recommended use** Adhesives.  
**Uses Advised Against** No information available

### 1.3. Details of the Supplier of the Safety Data Sheet

#### Company Name

Bostik, Inc.  
11320 W. Watertown Plank Road  
Wauwatosa, Wisconsin 53226 USA  
Phone: +1 (800) 843-0844 (Domestic Toll Free)  
Phone: +1 (414) 774-2250 (International)  
Fax: +1 (414) 774-8075  
Email: msds@bostik-us.com

### 1.4. Emergency Telephone Number

**Emergency Telephone** Telephone: 1-800-227-0332  
(Outside U.S.) 1-703-527-3887

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B

### 2.2. Label Elements

#### EMERGENCY OVERVIEW

**DANGER**

#### **Hazard statements**

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May damage fertility or the unborn child

# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1



**Appearance** Paste **Physical State** Liquid **Odor** No information available

### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Avoid breathing dust/fume/gas/mist/vapors/spray  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves

### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
Specific treatment (see first aid measures on this label)  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards Not Otherwise Classified (HNOC)

Not applicable

### Unknown Toxicity

18% of the mixture consists of ingredient(s) of unknown toxicity

### 2.3. Other Information

No information available.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical Name	CAS No	Weight-%
Limestone	1317-65-3	40 - 70
Quartz	14808-60-7	0.1 - 1
Dibutyltin dilaurate	77-58-7	0.1 - 1
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	0.1 - 1

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

# Safety Data Sheet

GREENFUSION  
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Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1

## Section 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. May cause sensitization by skin contact. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms** No information available.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

**Note to physicians** May cause sensitization by inhalation and skin contact.

### 4.4. Reference to Other Sections

**Reference to Other Sections** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 11: TOXICOLOGY INFORMATION

## Section 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

### 5.2. Special Hazards Arising from the Substance or Mixture

#### **Specific Hazards Arising from the Chemical**

No information available.

#### **Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

### 5.3. Advice for Firefighters

#### **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.

## Section 6: ACCIDENTAL RELEASE MEASURES

# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1

## 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**Personal Precautions** Ensure adequate ventilation, especially in confined areas.

## 6.2. Environmental Precautions

**Environmental Precautions** See Section 12 for additional Ecological Information.

## 6.3. Methods and Material for Containment and Cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning up** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## 6.4. Reference to other sections

**Reference to Other Sections** Section 7: HANDLING AND STORAGE  
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for Safe Handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for Safe Storage, including any Incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct contact with water or excessive moisture. Reacts with water.

**Incompatible Materials** Water.

### 7.3. Specific End Use(s)

**Other Information** No information available.

### 7.4. References to Other Sections

**Reference to Other Sections** Section 13: DISPOSAL CONSIDERATIONS  
Section 10: STABILITY AND REACTIVITY

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control Parameters

**Exposure Guidelines** As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses. As Limestone CAS 1317-65-3 is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL	Mexico
Limestone 1317-65-3	-	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
Quartz	TWA: 0.025 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable	: (30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>

# Safety Data Sheet

**GREENFUSION**  
Bostik Green Fusion

**Revision Date** 12-May-2016  
**Supersedes Date:** No information available  
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14808-60-7	respirable fraction	dust TWA: 0.05 mg/m <sup>3</sup> respirable dust	TWA total dust : (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	
Dibutyltin dilaurate 77-58-7	STEL: 0.2 mg/m <sup>3</sup> Sn TWA: 0.1 mg/m <sup>3</sup> Sn S*	IDLH: 25 mg/m <sup>3</sup> Sn TWA: 0.1 mg/m <sup>3</sup> except Cyhexatin Sn	TWA: 0.1 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> STEL: 0.2 mg/m <sup>3</sup>

Chemical Name	Argentina	Brazil	Chile	Venezuela
Limestone 1317-65-3	TWA: 10 mg/m <sup>3</sup>	-	TWA: 8 mg/m <sup>3</sup>	-
Quartz 14808-60-7	TWA: 0.05 mg/m <sup>3</sup>	-	TWA: 0.08 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
Dibutyltin dilaurate 77-58-7	TWA: 0.1 mg/m <sup>3</sup> Skin STEL: 0.2 mg/m <sup>3</sup>	-	TWA: 0.08 mg/m <sup>3</sup> Skin	Skin STEL: 0.2 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup>

## 8.2. Exposure Controls

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

### Personal protective equipment [PPE]

**Eye/Face Protection**                      Wear safety glasses with side shields (or goggles).  
**Skin and Body Protection**                Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.  
**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.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State**                                      Liquid  
**Appearance**                                        Paste  
**Color**    Grey  
**Odor**    No information available  
**Odor Threshold**                                    No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	No information available	
Flash Point	> 260 °C / > 500 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	

# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1

<b>Solubility in Other Solvents</b>	
<b>Partition Coefficient</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic Viscosity</b>	No information available
<b>Dynamic Viscosity</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

## 9.2. Other Information

<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>Solvent Content (%)</b>	No information available
<b>Solid Content (%)</b>	100
<b>Density</b>	1.650 g/cm <sup>3</sup>
<b>VOC</b>	< .1 %

## **Section 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity

None under normal use conditions.

### 10.2. Chemical Stability

Stable under recommended storage conditions.

### 10.3. Possibility of Hazardous Reactions

None under normal processing.

<b>Hazardous Polymerization</b>	Hazardous polymerization may occur.
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### 10.4. Conditions to Avoid

Extremes of temperature and direct sunlight. Keep from any possible contact with water. Reacts with water.

### 10.5. Incompatible Materials

Water.

### 10.6. Hazardous Decomposition Products

None known based on information supplied.

## **Section 11: TOXICOLOGY INFORMATION**

### 11.1. Information on Toxicological Effects

<b>Product Information</b>	No Data Available
<b>Inhalation</b>	No Data Available.
<b>Eye contact</b>	No Data Available.
<b>Skin Contact</b>	No Data Available.
<b>Ingestion</b>	No Data Available.

### **Component Information**

# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Limestone 1317-65-3	>5000 mg/kg (rat)	-	-
Quartz 14808-60-7	>2000 mg/kg ( Rat )	-	-
Dibutyltin dilaurate 77-58-7	= 2071 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	= 2234 mg/kg ( Rat )	-	> 640 ppm ( Rat ) 1 h

## Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

<b>Symptoms</b>	No information available.
<b>Skin Corrosion/Irritation</b>	No information available.
<b>Serious Eye Damage/Eye Irritation</b>	No information available.
<b>Irritation</b>	No information available.
<b>Corrosivity</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Chronic Toxicity</b>	No information available.
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.
<b>Aspiration Hazard</b>	No information available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen. As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz 14808-60-7	A2	Group 1	Known	X

### **ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

### **IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

### **NTP (National Toxicology Program)**

Known - Known Carcinogen

### **OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Limestone 1317-65-3	CE50 (72h) >200mg/L Algae (Desmodesmus subspicatus)	CL50 (96h) >10000mg/L Fish (Oncorhynchus mykiss)		CE50 (48h) >1000 mg/L Daphnia Magna
Dibutyltin dilaurate 77-58-7		LC50 48 h = 2 mg/L (Oryzias latipes)		

# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
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Version 1

## 12.2. Persistence and Degradability

No information available.

## 12.3. Bioaccumulative Potential

No information available.

## 12.4. Mobility in Soil

No information available.

## 12.5 Other adverse effects

No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

### 13.1. Waste Treatment Methods

#### **Disposal of Wastes**

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations

#### **Contaminated Packaging**

Dispose of in accordance with federal, state and local regulations

## **Section 14: TRANSPORTATION INFORMATION**

DOT Not regulated

IATA Not regulated

IMDG Not regulated

## **Section 15: REGULATORY INFORMATION**

### Global Inventories

<u>TSCA</u>	Listed
<u>DSL</u>	Listed

#### **Legend:**

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

**DSL** - Canadian Domestic Substances List

**Listed** - The components of this product are either listed or exempt from listing on inventory.

**Not Listed** - One or more components of this product are not listed on inventory.

### Canada

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

#### **WHMIS Hazard Class**

D2A - Very toxic materials



# Safety Data Sheet

GREENFUSION  
Bostik Green Fusion

Revision Date 12-May-2016  
Supersedes Date: No information available  
Version 1



## United States of America

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### California Proposition 65

This product contains one or more of the substances listed on Proposition 65 at or above 0.01 wt. %

Chemical Name	CAS No
Quartz	14808-60-7
N-(trichloromethylthio)phthalimide	133-07-3
Carbon black	1333-86-4

## Europe

### **Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU**

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

### **EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **Section 16: OTHER INFORMATION**

### **Product(s) Covered**

A75804 BOS GREEN FUSION ADH 4GL  
A75804CAN BOS GREEN FUSION ADH4GL CANADA

**HMIS** Health Hazards 2\* Flammability 1 Physical Hazards 0 Personal Protection X

### **Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet**

No information available

### **Key Literature References and Sources for Data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

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**Bostik Green Fusion**

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<b>Revision Note</b>	Not applicable.
<b>Training Advice</b>	No information available
<b>Additional information</b>	No information available

## **Disclaimer**

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**End of Safety Data Sheet**