



# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

**SG6300**  
Revision Number 2

Revision date 25-Oct-2021  
Supersedes Date: 27-Nov-2019

## 1. Identification

### 1.1. Product identifier

Product Name SG6300

#### Other means of identification

Other information Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesive  
Restrictions on use Consumer use

### 1.3. Details of the supplier of the safety data sheet

#### Responsible Party

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

#### Manufacturer

Jiangsu Bostik Adhesive Co., Ltd  
Wanfu Road, Changshu Economic  
Development Zone, Jiangsu  
Province, China 215536  
Tel: 86-512-5226600

E-mail msds@bostik.com

### 1.4. Emergency telephone number

Emergency Telephone **Chemtrec** (Transport/Environmental): 1-800-424-9300  
1-703-527-3887 (Outside U.S.)  
**Rocky Mountain Poison Center:** 1-866-767-5089

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

#### Hazards not otherwise classified (HNOC)

Not applicable

### 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 cause damage to organs through prolonged or repeated exposure

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**Appearance** Paste

**Physical state** Solid

**Odor** Odorless

## Precautionary Statements - Prevention

In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves  
Do not breathe dust/fume/gas/mist/vapors/spray

## Precautionary Statements - Response

Get medical advice/attention if you feel unwell  
IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
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 - Disposal

Dispose of contents/ container to an approved waste disposal plant

5 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

Skin irritation and skin sensitization tests were performed on this product, post curing. The results show that post-curing the product does not cause skin irritation or skin sensitization. Causes mild skin irritation.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%
4,4'-Methylenediphenyl diisocyanate	101-68-8	1 - <5

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

## 4. First-aid measures

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
May cause allergic respiratory reaction. Get medical attention immediately if symptoms

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occur.

<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 eye irritation persists: Get medical advice/attention. Contact with molten materials requires immediate medical assistance.
<b>Skin contact</b>	After contact with molten product, cool skin area rapidly with cold water. For severe burns, immediate medical attention is required. Removal of solidified molten material from skin requires medical assistance. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. May produce an allergic reaction. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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## 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization in susceptible persons. May cause sensitization by inhalation and skin contact. Treat symptomatically.
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## **5. Fire-fighting measures**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b> Large Fire	Carbon dioxide (CO <sub>2</sub> ). Water spray or fog. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
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<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.
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<b>Hazardous combustion products</b>	Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Hydrogen cyanide. Isocyanates.
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### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 5.3. Advice for firefighters

<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective gloves/protective clothing and eye/face protection. Evacuate personnel to safe areas. Do not touch damaged packages or spilled material. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Avoid contact with hot, molten product.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Transport to well ventilated area and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Add about 10 parts of neutralizer per part of isocyanate, with mixing. Allow substance to evaporate.

**Methods for cleaning up** DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST. Use personal protective equipment as required. **Solid:** . Take up mechanically, placing in appropriate containers for disposal. **Molten** . Where possible allow molten material to solidify naturally. Allow material to fully cure. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Do not breathe vapor or mist. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

### 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 moisture. Keep away from food, drink and animal feeding stuffs.

**Recommended storage temperature** Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

### 7.3 References to other sections

**Reference to other sections** Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005 ppm	(vacated) Ceiling: 0.02 ppm regulated under Methylene bisphenyl isocyanate (vacated) Ceiling: 0.2 mg/m <sup>3</sup> regulated under Methylene bisphenyl isocyanate Ceiling: 0.02 ppm Ceiling: 0.2 mg/m <sup>3</sup>	IDLH: 75 mg/m <sup>3</sup> Ceiling: 0.020 ppm 10 min Ceiling: 0.2 mg/m <sup>3</sup> 10 min TWA: 0.005 ppm TWA: 0.05 mg/m <sup>3</sup>

Chemical name	Argentina	Brazil	Chile	Colombia
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005 ppm	TWA: 0.005 ppm	LPP: 0.004 ppm LPP: 0.05 mg/m <sup>3</sup>	TWA: 0.005ppm

Chemical name	Costa Rica	Peru	Uruguay	Venezuela
4,4'-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005ppm	TWA: 0.005ppm TWA: 0.051mg/m <sup>3</sup>	0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI))	TWA: 0.005 ppm

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Engineering controls

Showers  
Eyewash stations  
Ventilation systems. Ensure adequate ventilation, especially in confined areas.

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

##### Eye/face protection

Wear safety glasses with side shields (or goggles). Avoid contact with eyes. During hot processing: If splashes are likely to occur: Tight sealing safety goggles. Face protection shield.

##### Hand protection

Impervious gloves.

##### Skin and body protection

Wear suitable 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.

##### General hygiene considerations

Wear suitable gloves and eye/face protection. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash hands and face

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before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Paste
Color	Light yellow
Odor	Odorless
Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	.	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	> 200 °C / 392 °F	CC (closed cup)
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

### 9.2. Other information

Explosive properties	No information available	
Oxidizing properties	No information available	
Solvent content (%)	No information available	
Solid content (%)	No information available	
Softening Point	No information available	
Molecular weight	No information available	
VOC Content (%)		No information available
Density	1.09 g/cm <sup>3</sup>	
Bulk density	No information available	

## 10. Stability and reactivity

### 10.1. Reactivity

Reactivity	Product cures with moisture.
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## 10.2. Chemical stability

**Chemical stability** Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Exothermic reaction with. Amines. Alcohols. Acids. Reacts with water. Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

**Hazardous polymerization** Hazardous polymerization may occur.

## 10.4. Conditions to avoid

**Conditions to avoid** Temperatures above 130 °C / 266 °F.

## 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition can lead to release of toxic/corrosive gases and vapors Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>) Hydrogen cyanide Phosphorus oxides Acrylates

## **11. Toxicological information**

### 11.1. Information on toxicological effects

#### Product Information

<b>Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

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

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

### Acute toxicity

#### Numerical measures of toxicity

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

ATEmix (inhalation-dust/mist) 50.00 mg/l

#### Component Information

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
4,4'-Methylenediphenyl diisocyanate 101-68-8	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	0.1 mL	24 hours	Non-irritant

**Respiratory or skin sensitization** May cause sensitization by inhalation. May cause sensitization by skin contact.

### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Exposure route	Results
OECD GD 39	Rat	Inhalation	Sensitizing

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
4,4'-Methylenediphenyl diisocyanate 101-68-8	-	Group 3	-	-

### Legend

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

Group 3 - Not Classifiable as to Carcinogenicity in Humans

### 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Limited evidence of a carcinogenic effect

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Target organ effects** Eyes, Skin, Heart, Lungs, Respiratory system.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Other adverse effects** No information available.



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Interactive effects No information available.

## 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

#### Component Information

Chemical name	Partition coefficient
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51

### 12.4. Mobility in soil

Mobility No information available.

#### Other adverse effects

Other adverse effects No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** 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.

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated

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IMDG Not regulated

## 15. Regulatory information

### International Inventories

<b>TSCA</b>	Listed
<b>DSL</b>	Not Listed

This product complies with TSCA Inventory requirements. The Exposure and Environmental Release Controls specified in this document are identified in the LVE and must be adhered to.

#### **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.

### 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	CAS No	SARA 313 - Threshold Values %
4,4'-Methylenediphenyl diisocyanate	101-68-8	1.0

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### Europe

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

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation. This document is based on the information given to us by our own suppliers at the date of this document.

#### **SVHC: Substances of Very High Concern for Authorization:**

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)

## 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

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

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Prepared By** Product Safety & Regulatory Affairs.

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Revision Note SDS sections updated. 1. 2. 3. 4. 5. 6. 7. 8. 10. 11. 12. 15.

## **Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**