SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
GB/T 16483-2008, GB/T 17519-2013

HHD 5518BK
Revision Number 1

1. Identification

Product identifier
Product Name HHD 5518BK
Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

Responsible Party
Bostik (Shanghai) Management Co., Ltd
Building 1, No.968 Guanghua Road, Minhang District
Shanghai, China
Tel: 021-60763101
Fax: 021-60763133

See section 16 for more information.

E-mail address SDS.AP@Bostik.com

Emergency telephone number
Emergency Telephone Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)
Chemtrec : China 4001-204937
CHEMTREC (Chemical Transportation Emergency Center)

Emergency Telephone National contact
0532-8388 9090 (China only)

Recommended use of the chemical and restrictions on use
Recommended use No information available
Restrictions on use No information available

2. Hazard(s) identification

Emergency Overview
Irritating to skin
May cause allergic respiratory reaction
May cause allergic skin reaction
Contains a known or suspected carcinogen

Appearance Solid
Physical state Solid
Odor Odorless

Classification of the substance or mixture

Skin corrosion/irritation Category 3
Respiratory sensitization Category 1
Skin sensitization Category 1
Carcinogenicity Category 2

Label elements
Signal word

**Danger**

**Hazard statements**
- H316 - Causes mild skin irritation
- H317 - May cause an allergic skin reaction
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H351 - Suspected of causing cancer

**Precautionary statements**

**Prevention**
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P284 - In case of inadequate ventilation wear respiratory protection
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Heat resistant gloves are recommended when handling molten materials

**Response**
- P308 + P313 - IF exposed or concerned: Get medical advice/attention
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor
- P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P362 + P364 - Take off contaminated clothing and wash it before reuse

**Storage**
- P405 - Store locked up

**Disposal**
- P501 - Dispose of contents/ container to an approved waste disposal plant

**Other hazards**
- Not applicable.

### 3. Composition/information on ingredients

#### Substance
- Not applicable.

#### Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Methylenebisphenyl diisocyanate</td>
<td>101-68-8</td>
<td>1 - &lt;5</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous

### 4. First-aid measures

#### Description of necessary first aid measures

**General advice**
- Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation
May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact
Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion
May produce an allergic reaction. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Most important symptoms/effects, acute and delayed
Symptoms
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.

For emergency responders
Self-protection of the first aider
Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

Note to physicians
May cause sensitization in susceptible persons. Treat symptomatically.

5. Fire-fighting measures

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

Unsuitable extinguishing media
No information available.

Specific hazards arising from the chemical
Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact. May cause sensitization by skin contact.

Hazardous combustion products

Special protective actions for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information
Refer to protective measures listed in Sections 7 and 8.
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For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up
Prevent further leakage or spillage if safe to do so.
Pick up and transfer to properly labeled containers.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

See Section 8 for information on appropriate personal protective equipment

Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>China</th>
<th>ACGIH TLV</th>
</tr>
</thead>
</table>
| 4,4'-Methylene diphenyl disocyanate - 101-68-8 | TWA: 0.05 mg/m³
STE: 0.1 mg/m³ Sensitizer+ | TWA: 0.005 ppm |

Note: See section 16 for terms and abbreviations

Biological occupational exposure limits
No data available

Monitoring and observation processes
No applicable information was found.

Engineering controls
Shower
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection
Heat resistant gloves are recommended when handling molten materials. Gloves must conform to standard EN 407. Unsuitable protective clothing. Wet gloves.

Skin and body protection
Wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment.

Recommended filter type:
Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases
9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH (as aqueous solution)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>5000 - 7000 mPa s</td>
<td>@ 110 °C</td>
</tr>
</tbody>
</table>

Additional information

- Oxidizing properties: No information available
- Solid content (%): No information available
- Density: 1.0-1.1 g/cm³

10. Stability and reactivity

Stability

- Stable under normal conditions.
- Sensitivity to mechanical impact: None.
- Sensitivity to static discharge: None.

Possibility of hazardous reactions

- None under normal processing.

Conditions to avoid

- None known based on information supplied.

Incompatible materials

- None known based on information supplied.

Hazardous decomposition products

- None known based on information supplied.

11. Toxicological information
Product Information

Inhalation
Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components).

Eye contact
Based on available data, the classification criteria are not met.

Skin contact
Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes mild skin irritation.

Ingestion
Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Methylenediphenyl diisocyanate</td>
<td>31600 mg/kg (Rattus) 9200 mg/kg (Rattus)</td>
<td>LD 50 &gt; 9400 mg/kg (Oryctolagus cuniculus) OECD 402</td>
<td>=1.5 mg/L (Rattus) 4 h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Classification based on data available for ingredients.

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Exposure route</th>
<th>Effective dose</th>
<th>Exposure time</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD Test No. 404: Acute Dermal Irritation/Corrosion</td>
<td>Rabbit</td>
<td>Dermal</td>
<td></td>
<td></td>
<td>Irritant</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Exposure route</th>
<th>Effective dose</th>
<th>Exposure time</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD Test No. 405: Acute Eye Irritation/Corrosion</td>
<td>Rabbit</td>
<td>Eye</td>
<td>0.1 mL</td>
<td>24 hours</td>
<td>Mild eye irritation</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitization
May cause an allergic skin reaction.

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Exposure route</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD GD 39</td>
<td>Rat</td>
<td>Inhalation</td>
<td>Sensitizing</td>
</tr>
</tbody>
</table>
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OECD Test No. 406: Skin Sensitization

<table>
<thead>
<tr>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guinea pig</td>
<td>Dermal Sensitizing</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test</td>
<td>Rat, in vivo</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>China</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenediphenyl diisocyanate</td>
<td>-</td>
<td>Group 3</td>
</tr>
</tbody>
</table>

Legend
IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Component Information
4,4'-Methylenediphenyl diisocyanate (101-68-8)

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies</td>
<td>Rat</td>
<td>Limited evidence of a carcinogenic effect</td>
</tr>
</tbody>
</table>

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

Component Information
4,4'-Methylenediphenyl diisocyanate (101-68-8)

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Effective dose</th>
<th>Exposure time</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD Test No. 414: Prenatal Development Toxicity Study</td>
<td>Rat</td>
<td>0.0, 0.2, 0.7, 2.1 mg/m³</td>
<td>2 Years</td>
<td>LOAEL 9 mg/m³</td>
</tr>
</tbody>
</table>

Specific target organ toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Based on available data, the classification criteria are not met.

Component Information
4,4'-Methylenediphenyl diisocyanate (101-68-8)

<table>
<thead>
<tr>
<th>Method</th>
<th>Species</th>
<th>Exposure route</th>
<th>Effective dose</th>
<th>Exposure time</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat, female</td>
<td></td>
<td>Inhalation, Dust/Mist</td>
<td>0.0, 0.2, 0.7, 2.1 mg/m³</td>
<td>2 Years</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

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

12. Ecological information

CGHS - EN
Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenediphenyl diisocyanate</td>
<td>ErC50 (72h) &gt;1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)</td>
<td>&gt;1000 mg/l (Danio rerio)</td>
<td>EC50 (24H) &gt;1000 mg/L Daphnia magna</td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenediphenyl diisocyanate</td>
<td>4.51</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenediphenyl diisocyanate 101-68-8</td>
<td>The substance is not PBT / vPvB</td>
</tr>
</tbody>
</table>

Mobility in soil
No information available.

13. Disposal considerations

Waste chemicals

| Waste from residues/unused products | Dispoze of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. |

Contaminated packaging
Do not reuse empty containers.

14. Transport information

IMDG
Not regulated

IATA
Not regulated

China
Not regulated

ADR
Not regulated

Special precautions for user
Please refer to the applicable dangerous goods regulations for additional information.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

SDS and Label prepared in compliance with the following regulations:
Decree No. 591 of the State Council of the People’s Republic of China
General Rule for classification and hazard communication of chemicals, GB 13690
Series standards of Safety rules for classification, precautionary labeling and precautionary statements of chemicals, GB 30000.2~GB 30000.29
General rules for preparation of precautionary label for chemicals, GB 15258
Safety data sheet for chemical products—Content and order of sections, GB/T 16483 GB/T17519
Regulations on the Control over Safety of Hazardous Chemicals

China - Catalog of Hazardous Chemicals - Hazardous Chemicals
The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>China - Catalog of Hazardous Chemicals - Hazardous Chemicals</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Methylenebiphenyl diisocyanate</td>
<td>Listed</td>
<td>1 - &lt;5</td>
</tr>
</tbody>
</table>

List of hazardous chemicals under priority management
Not applicable

Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used
Inventory of highly toxic goods
Not applicable

GB33372-2020
We certify that goods delivered comply with the limit of volatile organic compounds content in adhesive regulated in GB33372-2020, in agreement with our Asia Technical Center and regulatory team

Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals
Not applicable

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer  Not applicable

The Stockholm Convention on Persistent Organic Pollutants  Not applicable

The Rotterdam Convention  Not applicable

Europe


SVHC: Substances of Very High Concern for Authorization:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

2015/863/EU - RoHS
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

16. Other information

Local Contacts
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Fax : 66 (0) 2361 6469

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Fax: 84 650 3765109

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Tel: 0091-80-27833520
Fax: 00 91-80-27831324
Email: Bostikinfo.India@bostik.com

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Fax: 0086-512-52266020

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District, GETDD
Guangzhou, 511356, China
TEL: 020 -32226211
FAX: 020 -32226281

Jiangsu Bostik Adhesive Co.,Ltd
No.15-9, Xinggang Road, Changshu
Economic Development Zone
Jiangsu Province 215536
Tel: 0086-512-52266000
Fax: 0086-512-52266020

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (A EGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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