



Material Safety Data Sheet

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirement of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product/Company Information

Product Name: Silicone Sealant

Brand Name: BLD

Model Number: BLD-8221

Revision Date: 30/06/2020

Supersedes: 30/06/2020

Manufacture: Shandong Baolongda Industry Group Co., Ltd.

NO.008 Yinglong Road, Longshan High-tech Industrial Park, Linqu County,
Shandong Province, 262618, China.

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Section 2 - Composition/Information on Ingredients

Chemical Name	CAS No	WT%
Polyurethane resin	9009-54-5	44.5%
DIDP	68515-49-1	22%
Calcium carbonate	471-34-1	28%
Titanium dioxide	133-86-4	5%
Silane coupling agent	2530-83-8	0.5%

Section 3 - Hazards Identification

Classification : R42

Human health hazard : Sensitizes by inhalation.

Other warnings : Contains isocyanates. Read manufacturer's information.

See section 11 for further information on health effects and symptoms.

Section 4-First Aid Measures

Inhalation :	Get medical attention if adverse health effects persist or worsen. Get medical attention if symptoms occur.
Ingestion :	Do not induce vomiting unless directed by a medical professional. Keep airways open. Get medical attention immediately.
Skin contact :	Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least ten minutes. If symptoms occur, get medical attention.
Eye contact :	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove any contact lenses. Continue to rinse for at least ten minutes. Get medical attention.
Notes to Physician :	No special treatment. Treat symptomatically. If large amounts are ingested or inhaled, contact a poison treatment specialist immediately.

For more information on health effects and symptoms, see Section 11.

Section 5-Fire Fighting Measures

Extinguishing Media	
Suitable :	Use dry chemical powder, CO ₂ , water spray or foam to extinguish.
Unsuitable :	Do not use water jet.
Special Exposure Hazards :	Flammable liquid. In case of fire or heating, it may cause pressure increase and container rupture with subsequent explosion hazard.
Hazardous Combustion Products :	Decomposition products may include the following: Carbon dioxide Carbon monoxide Halogenates Metal oxides

Special Protective Equipment for Firefighters : Firefighters must wear appropriate protective equipment and positive pressure self-contained breathing apparatus (SCBA) with full face shield.

Section 6-Accidental Release Measures

Personal precautions :	Keep out unnecessary and unprotected persons. Do not touch or walk through spilled material. Cut off all sources of ignition. No flames, smoking or flames allowed in hazard area. Wear appropriate personal protective equipment (see section 8).
Environmental precautions :	Avoid spreading and runoff of spilled material, avoid contact with soil, rivers, drains and sewage pipes. If product has caused environmental pollution (drains, waterways, soil or air), inform the relevant authorities.
Large spills :	Stop leak if without risk. Confined area. Move containers away from leak area. Prevent entry into drains, waterways, basements or confined areas. Flush spills to wastewater treatment plant or dispose of as described below. Contain and collect spills with non-combustible materials such as sand, earth, vermiculite, diatomaceous earth and place in containers for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment.
Small spills :	Stop leak if without risk. Move containers from spill area. Absorb with inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment.

Section 7-Handling and Storage

Handling :	Wear appropriate personal protective equipment (see Section 8). Eating,
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drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands before eating, drinking and smoking. Individuals with asthma, allergies, chronic or recurrent respiratory diseases should not be employed in any work involving this product. Avoid contact with eyes, skin or clothing. Do not breathe vapor or mist Use only with adequate ventilation. Wear a suitable respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless ventilation is adequate. Keep in original container or approved replacement made of compatible material, and keep containers tightly closed when not in use. Storage and Use Keep away from heat, sparks, open flames or any other ignition source. Use explosion-proof electrical (ventilation, lighting and material handling) equipment. Use non-sparking tools. Take precautions to prevent static discharge. To prevent fire or explosion, ground containers and equipment when transferring material to discharge static electricity generated during material transfer. Empty containers retain product residues and can be very dangerous.

Storage: Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

Storage precautions : Store in accordance with local regulations. Store in isolated areas where permitted. Store in original container, protected from direct sunlight, in a dry, cool and well-ventilated area away from incompatible materials (see section 10), food and beverages. Remove all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until use. Opened containers must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to prevent environmental contamination.

Packaging materials

Recommendations : Use original container.

Section 8-Exposure Control/Personal Protection

Maximum allowable concentration

Component name

4,4-methylenediphenyl diisocyanate

2 - Isocyanato - 4 - (isocyanatomethyl) benzene

Occupational exposure limit value

limit value 8 hours: 50 ppm 8 hours.

ACGIH TLV (USA, 1/2007).

TWA: 0.005 ppm 8 hours.

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Recommended monitoring procedures : If the product contains components with exposure limit values, personal, workplace atmosphere or biological environment should be monitored to determine the effectiveness of ventilation or other control measures and/or the need for respiratory protection. National

guidance documents on methods for exposure evaluation of inhaled chemical agents and methods for determining hazardous substances. clothing as soon as possible.

Exposure Controls

Occupational Exposure Controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation systems or other engineering controls to ensure that worker exposure to airborne contaminants is below recommended or statutory limits. Use process controls that also control gas, vapor or dust concentrations below exposure limits. Use explosion-proof ventilation equipment.

Hygiene Measures : After exposure to chemicals, wash hands, forearms and face thoroughly before eating, smoking, using the toilet and at the end of work. Use appropriate techniques to remove potentially contaminated clothing. Wash contaminated clothing before reuse.

Respiratory Protection : Respirator selection must be based on known or anticipated exposure levels, product hazards and the safe working limits of the selected respirator. Use a properly fitted air-purifying or air-fed respirator that complies with an approved standard if a risk assessment indicates this is necessary. Organic vapour filter (type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

Hand protection : Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommendation: Butyl rubber gloves or Nitrile rubber gloves

Eye protection : Safety glasses complying with an approved standard should be worn if a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Body protection : The choice of personal protective equipment should be based on the type of work to be performed and the risks involved and should be approved by a qualified person.

Recommendation: Use a skin barrier cream

Environmental exposure controls : Emissions from ventilation or process equipment should be tested to ensure that they meet the requirements of environmental protection legislation. In some cases it may be necessary to modify fume scrubbers, filters or process equipment to reduce emissions to acceptable levels.

Section 9-Physical and Chemical Properties

General Information**Appearance**

Form :	Paste.
Color :	White, grey, black, brown
Odor :	Faint odor.

Important Health, Safety and Environmental Information

Flash Point :	Closed Cup: ~80 °C (176 °F)
Density :	~1.3g/cm ³ [20 °C (68 °F)]
Solubility :	Insoluble in: Water

Section 10-Stability and Reactivity

Stability :	The product is stable.
Conditions to Avoid :	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose container to heat or ignition sources.
Incompatible Materials :	Reactive or incompatible with the following materials: Oxidizing materials
Hazardous Decomposition Products :	Under normal conditions of storage and use, hazardous decomposition products will not be produced.

Section 11-Toxicological Information

Potential acute health effects

Inhalation :	Inhalation causes sensitization.
Ingestion :	May cause gastrointestinal disturbances.
Skin contact :	May cause skin allergy and inflammation.
Eye contact :	May cause eye irritation.
Chronic effects :	Once sensitized, exposure to very low levels may produce severe allergic reactions.

Section 12-Ecological Information

Environmental effects :	Avoid spills from coming into contact with soil and drains. Do not empty the material into drains, dispose of the material and its container in a safe manner.
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Section 13-Disposal Information

Disposal methods :	The generation of waste should be avoided or reduced as far as possible. Empty containers or liners may contain some product residues. Dispose of the product and its container in a safe manner. Dispose of residues and non-recyclable products through a licensed waste disposal contractor. Disposal of the product, solutions and their by-products should comply with environmental protection, waste disposal regulations and local regulations. Avoid the spread and runoff of spills and avoid contact with soil, rivers, drains and sewage pipes.
European Waste Catalogue (EWC) :	08 04 09* Waste adhesives and sealants containing organic solvents or other hazardous substances
Packaging :	Completely used packaging can be recycled. Packaging with residues should be disposed of by a qualified supplier. 15 01 10* Packaging containing residues of hazardous substances or contaminated with hazardous Substances

Section 14-Transportation Information

Sea Transport (IMDG): Not subject to IMDG code. Air.
Transport (IATA): Not subject to IATA regulations.



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Special Requirements and Additional Information: None.

Section 15-Regulatory Information

EU regulations

In accordance with EU (European Union) Directives 67/548/EEC and 1999/45/EC (including amendments), the classification and labelling have been determined and take into account the intended product use.

Hazard symbols : Xn Harmful

Contains : 4,4-methylenediphenyl diisocyanate

Hazard phrases : R42- Sensitizing by inhalation.

Safety phrases : S23- Avoid breathing gas, mist, vapours or spray
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label of the article if possible).

Other warnings : Contains isocyanates. Please read the information provided by the manufacturer.

Remarks :

VOC content (EU) : VOC (w/w): 3.16%

Section 16-Other Information

All mentioned in sections 2 and 3 :
Classification text : R10- Flammable. R23-
Toxic by inhalation. R20-
Harmful if inhaled.
R20/21- Harmful if inhaled and in contact with skin.
R65- Harmful: May cause lung damage if swallowed.
R38- Irritating to skin.
R36/37/38- Irritating to eyes, respiratory system and skin.
R42- Sensitizing by inhalation.
R42/43- Sensitizing by inhalation and in contact with skin.
R66- Repeated contact may cause skin dryness or cracking.
R67- Vapours may cause drowsiness and dizziness.

All mentioned in sections 2 and 3
Classification text : R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

: T - Toxic

Xn - Harmful

Xi - Irritant

N - Dangerous to the environment

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Shandong Baolongda Industry Group Co., Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Company Name: Shandong Baolongda Industry Group Co.,Ltd.

Date: 30/06/2020