

Material Safety Data Sheet

Sample Name: HEXAS THERMOPLASTIC ELASTOMER SIS

Client Name: HB GROUP (CHINA) CO., LTD.

Client Address: Room 1103, China Resources Building B, No. 6
 Shandong Road, Qingdao 266071, China.

MSDS No.: 202308090308E

Issue Date: August 11, 2023

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. We make no warranty, expressed or implied, with respect to this information and disclaim all liabilities from reliance on it.

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1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Identification:

Product Name: Hexas Thermoplastic Elastomer SIS
Product Grades: EL9101, EL9101D, EL9102, EL9114, EL9126, EL9126D, EL9153, EL9162, EL9163, EL9166D, EL9170, EL9209, EL9220, EL9220D, EL9270, EL9301D, EL9450, EL9470, EL9470D, EL9520, EL9620
CAS No.: 25038-32-8

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Pressure sensitive adhesives, Sealants, Bitumen modification, Modifier for plastic etc..
Use advised against: No data available.

Details of the Manufacturer or supplier

Manufacturer: HB GROUP (CHINA) CO., LTD.
Address: Room 1103, China Resources Building B, No. 6 Shandong Road, Qingdao 266071, China.
Telephone: +86-532-55662730
Email: business@hb-group.com.cn
Website: www.hb-group.com.cn

Emergency telephone number

Emergency Telephone: +86-532-55662730

2. Hazards Identification

Classification of the substance or mixture

This product is not classified as hazardous according to the GHS (The Globally Harmonized System of Classification and Labelling of Chemicals).

GHS Label elements, including precautionary statements

Pictogram(s): No pictogram is used.
Signal Word: No signal word is used.
Hazard Statement: No hazard statement.
Precautionary statements: No precautionary statement.

Description of any hazards not otherwise classified

No relevant information.

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3. Composition/Information on Ingredients

Chemical Characterization

Substance. Consist of the following ingredients.

Composition:

Components Name	CAS No.	Weight (%w/w)
Styrene/isoprene, aba block copolymer	25038-32-8	>99.5%

4. First-Aid Measures

Description of first aid measures:

Eye Contact: Flush eyes with water as a precaution.

Skin Contact: Wash off with soap and plenty of water. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn.

Inhalation: If dust and melted fume exists, Remove to fresh air. Get medical attention if feel unwell.

Ingestion: No significant effects and influences. Rinse mouth with water. Give 2 glasses of water to drink. Get medical attention if feel unwell.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Will burn at elevated temperature or open flame. Decomposition products formed under fire conditions. - Carbon monoxide, carbon dioxide, Hydrogen chloride, etc.

Advice for firefighters

Evacuate personnel to safe areas. As in any fire, Wear self-contained breathing apparatus and full

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protective gear for firefighting. Move container from fire if safe.

Further information

Avoid dust generation, as combustible dust can form explosive dust-air mixtures when finely dispersed in air and reach a certain concentration.

6. Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:

Evacuate area. Ventilate area. Avoid dust generation. Avoid inhaling dust. Use suitable personal protective equipment. Do not touch or walk through spilled material.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment should be avoided.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Eliminate all ignition sources. Ventilate the spill area. Floor may be slippery, use care to avoid falling. Sweep up and shovel. Keep in suitable, closed containers for disposal. For disposal see section 13.

7. Handling and Storage

Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust or fume of high temperature is formed.

Wear suitable personal protective equipment in section 8.

Avoid formation of dust and aerosols. Avoid inhaling dust.

Wash thoroughly after handling.

All thermoplastic elastomer with high diblock content present risk of particulate clustering. Keep at temperature not exceeding 35°C

Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep package tightly closed in a dry and well-ventilated place. Do not store together with strong oxidizing agent. Keep away from fire and heat.

8. Exposure Controls/Personal Protection

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Exposure Limits: Not established by US OSHA and ACGIH.

Exposure controls

Engineering Control: General industrial hygiene practice. Provide appropriate exhaust ventilation at places where dust or fume/vapor is formed.

Personal protective equipment:

Respiratory Protection: Wear NIOSH approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eyes Protection: An eye wash unit and safety shower station should be available nearby work place. Wear safety glasses to protect eyes when working with molten material.

Body Protection: In production, use normal work suit is enough.

Hands Protection: It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns

Other Protections: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Porous granule/Dense pellet.
Color	Light yellow/white.
Odor	Characteristic odor.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable
Evaporation rate	Not available.
Flammability	Not flammable.
Upper explosive limit %(V/V)	The product is not explosive but ignitable or explosive air/dust mixtures are possible.
Lower explosive limit %(V/V)	The product is not explosive but ignitable or

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	explosive air/dust mixtures are possible.
Vapor pressure	Not applicable.
Vapor density	Not available.
Relative density	0.88-0.95g/cm ³ (25°C).
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Stability: Stable under normal storage temperature and pressure.

Conditions to Avoid: Extremes of temperature, flames and mars. Avoid dispersion of dust.

Incompatible materials: Strong oxidizing agents.

Hazardous Decomposition Products: Other decomposition products- no data available. In the event of fire:see section 5.

Possibility of hazardous reactions: No known hazardous reaction under normal condition.

11. Toxicological Information

Acute Toxicity:	Oral, LD₅₀ :	>2000 mg/kg (rat) (Test OECD n°423-Directive 92/69/EEC-Method B1);
	Inhalation, LC₅₀:	No data available.
	Dermal, LD₅₀:	No data available.
Skin Corrosion/Irritation:	No known irritating effect.	
Serious Eye Damage/Eye Irritation:	No known irritating effect.	
Respiratory or Skin Sensitization	No sensitizing effects known.	
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity:	None of the components of this product is listed as a	

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carcinogen by IARC, NTP, US OSHA.

Reproductive Toxicity:

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

**Specific Target Organ Toxicity -
Single Exposure (Globally
Harmonized System):**

No known human health effects upon single exposure.

**Specific Target Organ Toxicity -
Repeated Exposure (Globally
Harmonized System):**

No known human health effects upon repeated exposure.

Aspiration Hazard:

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

Potential Health Effects:

Inhalation:

Avoid inhaling dust. Exposure to small amount of dust is not expected to present a hazard. Inhalation fumes from hot-molten resin may cause irritation to respiratory tract.

Skin Contact:

No irritating effect except possible mechanical stimulation similar to sand or dust. Molten material will produce thermal burns.

Eye Contact:

No irritation effect under normal temperature. Fumes from hot-molten resin may cause eyes irritation.

Ingestion:

Not an expected route of exposure. Swallowing small amounts is not likely to have significant effect. Swallowing large amounts may be harmful.

12. Ecological Information

Toxicity

High molecular weight polymers, expected to be low toxicity or nonhazardous to environment under normal usage.

Persistence and degradability

No data available.

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Bioaccumulative potential

No bioaccumulative potential.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No known ecological damage caused by this product.

13. Disposal Considerations

Safe handling and methods of disposal

Product

Non hazardous waste. Recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

Contaminated packaging

Dispose of as unused product after empty.

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14. Transport Information

ADR/RID Information

ADR-UN Number: Not regulated for transport
ADR-Class: Not regulated for transport
ADR-Shipping Name: Not regulated for transport
ADRPacking Group: Not regulated for transport

IATA/ICAO Information

The product is not subject to IATA DGR.
IATA-UN Number: Not regulated for transport
IATA-Class: Not regulated for transport
IATA-Shipping Name: Not regulated for transport
IATA-Label: None
IATA-Packing Group: Not regulated for transport
IATA-S.P.: None
IATA-ERG: None

IMO/IMDG Information

The product is not subject to IMO/ IMDG Code.
IMDG-Marine Pollutant: No
IMDG-UN Number: Not regulated for transport
IMDG-Class: Not regulated for transport
IMDG-Shipping Name: Not regulated for transport
IMDG-Packing group: Not regulated for transport
IMDG-Storage Category: Not regulated for transport

15. Regulatory Information

International Regulations

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

No information available.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

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Further Information:

·This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

·This safety data sheet was prepared in accordance with Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Rev. 9.

Department Issuing MSDS: HB GROUP (CHINA) CO., LTD.

Issue Date: August 11, 2023

"HEXAS" is a brand name, which is used for promotion and/or sale of BITONER products by the below affiliates of HB Group.

QINGDAO BATER CHEMICAL CO., LTD.

QINGDAO HIGREE CHEMICAL CO., LTD.

QINGDAO HEXAS CHEMICAL CO., LTD.

SHANGHAIBITONER RESIN CO., LTD.

DASCHI CHEMIE B.V.

BITONER ITALIA SRL

BITONER JAPAN CO., LTD.

HB RESIN INC.

*****End*****