

Safety Data Sheet

PART 1 IDENTIFICATION

Product name: Thermoplastic Elastomer SIS HI Series

Other identification: Styrene-Isoprene-Styrene:

CHEMICAL FAMILY: Thermoplastic Elastomer/Styrene-Isoprene-Styrene Block Copolymer

CAS NUMBER: 25038-32-8

APPLICATION: Pressure sensitive adhesives, Sealants, Road marking paint, Waterproof membrane adhesive, Hygiene adhesive, Modifier for plastic

SUPPLIER:

Qingdao Hongsheng New Material Co.,LTD

ADD: No.18 Shanghai Road, Qingdao, China

TEL: +86 18662651969

PART 2 HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification(GHS-US)

Not Classified

2.2 Label Elements

Signal word: None

Pictogram: None

Hazard statements: None

PART 3 COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCES/MIXTURE GENERAL INFORMATION:

3.1. Mixture

Products as manufactured are classified as non-hazardous and chemical disclosure is not required by regulation(s). The product contains listed below:

Chemical Name

Styrene-Isoprene-Styrene Polymer(SIS)

Additives

Concentration Additional identification Notes

>99.5% copolymer

<0.5% others

PART 4 FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid measures after inhalation: Supply fresh air, Seek medical treatment.

***After skin contact:** Wash hands. If contact with molten product, immediately flush with cool water. Do not pull solidified product off skin. Seek medical treatment.

***After eye contact:** Rinse eyes with water. If contact with molten product, immediately flush with cool water. Seek medical treatment.

***After ingestion:** Do not induce vomiting. Get medical advice/attention if you feel unwell.

***After swallowing:** Rinse out mouth and then drink plenty of water. Seek medical treatment

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

Symptoms/injuries: Long term skin contact could cause skin dryness.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptoms. No specific antidote.

PART 5 FIRE FIGHTING MEASURES

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Extinguishing media:

Suitable Extinguishing Media: Carbon Dioxide,powder or water spray.For large fires use foam,water spray and call for fire-fighting assistance.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

Fire hazard: Not flammable but will burn. Combustion of products may include carbon monoxide and carbon dioxide.

Explosion hazard: Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations.

Reactivity: Non-reactive.

Advice for firefighters

Protection during firefighting: Keep container cool with water. Use standard protective clothing for fire fighters.

PART 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures: If spilled, may cause a slipping hazard. Avoid dust generation. Keep away from ignition sources. Ensure proper ventilation.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment: Shovel, or sweep up or use industrial vacuum cleaner. Products are non-hazardous. Proper disposal should be evaluated based on local regulations/legislation or directives.

PART 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Prevent generation of dust.If necessary,wear a dust mask.Use local exhaust above processing areas.Take precautionary measures against static discharge.Earth/Ground processing equipment.Product has a tendency to accumulate static charge during transport,handling and processing.Considering the risks of electrostatic discharges,handling the products in potentially flammable atmospheres should be evaluated.Suitable precautions should be taken at all times,in particular when emptying bags or other packaging.Reducing the velocity of transport will reduce charging.Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable mixtures.Keep away from ignition sources.If product is processed into smaller particles,explosive hazardous conditions must be evaluated.When processing products,maintain a fire watch if material reaches 225°C(437°F).Operating below these temperatures does not guarantee the absence of product degradation.The temperatures listed are indicated only for safety reasons (risk of fire and product degradation) and are not recommended for processing.

Degradation of the polymer will start at lower temperatures depending on the specific processing conditions.Wash hands after use.Avoid eating,drinking and smoking in work areas.For more information about processing precautions,consult the Sales Representative from Hisheng

STORAGE:

Do not store outside.Keep container dry.Keep in a cool,well-ventilated place.Products contain an antioxidant to aide in stabilizing the polymer over its recommended use and storage conditions.Exposure

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to direct sunlight or elevated temperatures over prolonged periods of time consumes the antioxidant at an increased rate and may lead to self-heating. Do not stack Flexible Intermediate Bulk Containers (FIBCs) or palletized bags. Avoid storage under pressure or at elevated temperatures to minimize particulate clustering. Do not store with alkalis, oxidizers or acids.

SHELF LIFE: 24 months

SPECIFIC END USE(S): No additional information available.

REFERENCE TO OTHER SECTIONS: Refer to Sections 8

PART 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Appropriate Engineering Controls: Use local exhaust ventilation during processing. When transferring products, earth/ground all subsequent equipment to minimize charges that may develop.

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Materials for protective clothing: Standard issue work clothes, which may include apron, anti static safety shoes or boots as necessary.

Eye protection: Safety glasses with side-shields.

Skin: Cloth gloves. Use heat protective gloves when handling hot, molten product.

Respiratory Protection: During handling: if dust is generated, a particulate pre-filter is recommended and for high airborne dust concentrations, a cartridge designed for nuisance dust is recommended. During high temperature processing: use local exhaust ventilation when available.

PART 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE: Solid

FORM: Porous granule/Dense pellet

COLOR: white

ODOR: Odorless

ODOR THRESHOLD: Not determined.

PH: No data available.

Relative evaporation rate (butyl acetate=1) :

Not applicable

Melting point: Not determined.

Freezing point: Not determined.

Boiling point: Not applicable

Flash point: Not applicable

Auto-ignition: Not determined.

Decomposition temperature: Not determined.

Flammability (solid, gas): Not a Flammable Solid

Vapor pressure: Not applicable

Relative vapor density at 20 °C : Not applicable

Relative density: Typically between 0.88 - 0.95 at 20°C

Vapor Density: Not applicable

Solubility: Insoluble in water.

Log Pow: No data available.

PART 10 STABILITY AND REACTIVITY

10.1. Reactivity Non-reactive.

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10.2. Chemical Stability Stable at common condition.

10.3. Possibility of Hazardous Reactions

Risk of self-heating and self-ignition under long term exposure to high temperatures:Refer to Section 7.2.

10.4. Conditions to Avoid

Avoid prolonged exposure to heat or UV light since this may affect product properties.Product will burn when exposed to continuous sources of ignition.

10.5. Incompatible Materials

Avoid contact with strong acids,alkalis and oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous vapors from heated product are not expected to be generated under normal processing temperatures and conditions.No hazardous decomposition under ambient temperatures.Although highly dependent on temperature and environmental conditions,a variety of thermal decomposition products may be present if the product is over heated,is smoldering or catches fire.Typical decomposition products are ultimately oxides of carbon.

PART 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

USP Systemic Toxicity Study in Mice-Extract:

No mortality or evidence of systemic toxicity from extracts.

USP Intracutaneous Study in Rabbits – Extract:

No evidence of significant irritation from the extracts injected intracutaneously

USP Muscle Implantation Study in Rabbits – 7 Day:

No evidence of irritation or toxicity in accordance with USP, General Chapter 88,

Biological Reactivity Test. Macroscopic reactions insignificant.

Cytotoxicity Study using the Colony Assay in Chinese Hamster Lung Cells (V79):

Test article is not cytotoxic

In Vitro Hemolysis Study in Red Blood Cells, Japanese MHLW:

Test article is non-hemolytic

Skin corrosion/irritation: Not classified

(No data available)

pH: Not Applicable (Insoluble)

Serious eye damage/irritation: Not classified

(No data available)

pH: Not Applicable (Insoluble)

Respiratory or skin sensitization: Not classified

(This product does not cause skin sensitization)

Germ Cell Mutagenicity: Not classified

(Test extracts considered non-mutagenic)

Carcinogenicity: Not classified

(No data available)

Reproductive Toxicity: Not classified

(No data available)

Specific target organ toxicity (single exposure) Not classified

(No data available)

Specific target organ toxicity (repeated exposure): Not classified

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(No data available)

Aspiration hazard: Not classified

(Not possible due to product's physical form)

PART 12 ECOLOGICAL INFORMATION

12.1. Toxicity

LC50 fish 1: > 1000 ppm Acute 96-Hour Water Absorbing Fraction (WAF) performed on Rainbow Trout.

LOEC (chronic): No data available.

12.2. Persistence and degradability

Persistence and degradability Products are inert and non-biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate, since it is not soluble in water and not biodegradable.

12.4. Mobility in Soil

Ecology - soil Not mobile. Remains on surface of soil.

PART 13 DISPOSAL CONSIDERATIONS OF

Waste disposal recommendations:

Its size and quantity released may interfere with sewage treatment systems, Recover or recycle if possible. Incinerate or consult a licensed landfill provider. Remove all packaging for recycling or disposal based on local regulations.

PART 14 TRANSPORT INFORMATION

Transport by sea

No additional information

Air transport

No additional information

PART 15 REGULATION INFORMATION

15.1. US Federal regulations

RQ(Reportable quantity,section 304 of EPA's List of Lists): Not regulated

SARA Section 302 Threshold Planning Quantity(TPQ): Not regulated

SARA Section 311/312 Hazard Classes: Not regulated

SARA Section 313-Emission Reporting: Not regulated

Resource Conservation and Recovery Act-RCRA(40 CFR 261): Not regulated

Emergency Planning and Community Right-to-Know Act(EPCRA): Not regulated

Comprehensive Environmental Response, Compensation and Liability Act(CERCLA/Superfund): Not regulated

15.2. National regulations

Listed on the AICS(Australian Inventory of Chemical Substances)

Listed on the Canadian DSL(Domestic Substances List)

Listed on IECSC(Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS(European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS(Existing Chemicals Inventory)

Listed on KECI(Korean Existing Chemicals Inventory)

Listed on NZLoC(New Zealand Inventory of Chemicals)

Listed on PICCS(Philippines Inventory of Chemicals and Chemical Substances) Listed on NECI(Taiwan National Existing Chemical Inventory)

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Listed on the United States TSCA(Toxic Substances Control Act) inventory.

15.3. US State regulations

Clean Air Act Section 111 Volatile Organic Compounds(VOC): Not regulated

Clean Air Act Section 112 Hazardous Air Pollutants(HAP): Not regulated.

15.4 FDA Regulation

US FDA:

21 CFR 175.105 Adhesive

21 CFR 175.125 Pressure sensitive Adhesive

21 CFR 177.2600 Rubber articles intended for repeated use

21 CFR 175.300 Resinous and polymeric coatings

21 CFR 176.170 Components of paper and paperboard in contact with aqueous and fatty foods

21 CFR 176.180 Components of paper and paperboard in contact with dry food

21 CFR 175.320 Resinous and Polymeric Coating for Polyolefin Films

21 CFR 177.1210 Closures with Sealing Gaskets for Food Containers

Disclaimer:This information is provided without warranty.The information is believed to be correct.This information should be used to make an independent determination of the methods to safeguard workers and the environment.

PART 16 OTHER INFORMATION

People Make : Smuck

Making Date :2021/01/01

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