

MSDS for Hongsheng APAO**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**Trade name : **Hongsheng APAO (Amorphous Poly Alpha Olefin)**

Product form : Substance
Product Identifier(s) : .Names of individual grades
Unique Formula Identifier : Not Applicable
Substances in nanoforms :Non nanoforms

Basic polymer: Amorphous Poly Alpha Olefin
CAS number : 25895-47-0

1.2 Relevant identified uses and uses advised against

Relevant identified uses :Hot Melt Adhesives, Butyle Sealant, Waterproofing
Uses advised against : This product must not be used in applications other than those identified above, without first seeking advice of the supplier

1.3 Details of the supplier of the safety data sheet

Supplier :Qingdao Hongsheng New Material Co.,LTD
ADD: 1st Floor, East Office Building 45 Beijing Road,Qianwan Free Trade Port
Zone,Qingdao,China

1.4 Emergency telephone number : +86-18562651969

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

EC Index number : Not available
CLP Regulation (EC 1272/2008) : Not classified.

2.2 Label elements

HCLP Regulation (EC 1272/2008)
Pictogram(s) : Not hazardous
Precautionary Statements:
No special requirement.
Response Precautionary Statements:
No special requirement.
Storage precautionary statements:
No special requirement.
Disposal precautionary statements:
No special requirement.

2.3 Other Hazardous :

Substance meets the criteria for vPvB and PBT according to Regulation (EC) No 1907/2006, Annex XIII:
This product does not contain any substances that are assessed to be a PBT or a vPvB.
Substance identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100:
This product does not contain any substance which has been defined as having endocrine disrupting properties.
Other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture:
Not found.

2.4. Additional information

Based on conditions common to industrial workplace use of this product: Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes. Vapours formed when material is processed at high temperatures may be irritating to the eyes and

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upper respiratory tract.

Based on professional judgment, inconclusive testing, or sensitive individuals: Dust or particulates may cause mild respiratory tract and eye irritation. Repeated or prolonged contact may cause slight irritation to the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:This material is defined as a substance (polymer).

Ingredients/Components	CAS No.	EC No.	Index No.	REACH Registration No.	% by weight	Classification according to Regulation (EC) No 1278/2008 (CLP).	SCL/M-factor/ATE
1-Butene, polymer with ethene and 1-propene	25895-47-0	607-824-5	--	--	100	Not applicable	Not applicable

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

General notes: No information available.

Following inhalation: No special measures as there is no hazard for normal contact. If discomfort occurs after inhaling dust or fume from processing or thermal decomposition, remove to a place where air is fresh.

Following skin contact: No special measures as there is no hazard for normal contact. Wash with plenty of soap and water.

Following eye contact: No special measures as there is no hazard for normal contact. If dust or fume from processing enters eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion: Rinse mouth. Do not induce vomiting without professional instruction. Get medical advice/attention if you feel unwell.

Self-protection of the first aider: Wear protective gloves/protective clothing/eye protection/face protection.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	: At ambient/normal handling temperatures, no adverse effects due to inhalation of dust are expected.
Contact with skin	: No adverse effects and symptoms are expected.
Contact with eyes	: No adverse effects and symptoms are expected.
Ingestion	: No adverse effects and symptoms are expected.

4.3 Indication of any immediate medical attention and special treatment needed

The need to have special means for providing specific and immediate medical treatment available in the workplace is not expected.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
Unsuitable extinguishing media	: Straight streams of water

5.2 Special hazards arising from the substance or mixture

: Flammable hydrocarbons, Incomplete combustion products, Oxides of carbon, Smoke, Fume

5.3 Advice for firefighters

Fire Fighting Instructions

: Assure an extended cooling down period to prevent re-ignition. Evacuate area. Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards

: Explosion: Avoid generating dust; fine dust dispersed in air in sufficient concentration and in the presence of an ignition source is a potential dust explosion hazard.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment & emergency procedures:

NOTIFICATION PROCEDURES In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

PROTECTIVE MEASURES Avoid contact with spilled material. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (for example, clearing dust surfaces with compressed air). Prevent dust exposure to ignition sources. For example, use non-sparking tools and prohibit smoking, flares, sparks or flames in immediate area.

- 6.2 Environmental precautions areas.** : Prevent entry into waterways, sewers, basements or confined areas.
- 6.3 Methods and material for containment and cleaning up** : Sweep up or vacuum up the product. Dispose of materials or solid residues at an authorized site.
- 6.4 Reference to other sections** : See Section 5 for firefighting information. See Section 3 for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : Wash hands thoroughly after handling.
Avoid damage of packaging or containers during handling.
- 7.2 Conditions for safe storage, including any incompatibilities** : Technical measures and storage conditions: Store it in a well-ventilated, cool and dry store room . Keep away from heat/sparks/open flames/hot surfaces.
Incompatible materials: No relevant information.
Packaging materials: plastic bag.
Requirements for storage rooms and vessels: Well-ventilated and dry.
Storage class: class 13.
- 7.3 Further information on storage conditions:** The storeroom should be equipped with proper facilities for accidental fire.
- 7.4 Specific end use(s)** : Raw material for hot-melt adhesive. Specific end use(s): Not applicable.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Ingredients	European Union-TWA	OSHA PEL-TWA	ACGIH TLV-TWA
Not applicable	Not applicable	Not applicable	Not applicable

8.2. Exposure controls:

8.2.1. Appropriate engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Install washer eyes and safety showers near to the handling and storage area.

8.2.2. Personal protection equipment:

Protection of Hands: Recommend wearing protective gloves for industrial hygienic purpose.

Protection of Eyes: No special requirements under normal conditions. Wear safety glasses when dust or fume may be generated during processing or working for a long time.

Respiratory Protection: No special requirements under normal conditions. Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur.

Protection of Body: Recommend wearing general working clothing.

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

8.2.3 Environmental exposure controls:

Maintain levels below Community environmental protection thresholds.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	Solid
Colour	White, grey, pale yellow
Odour	Slight alkane odor
Melting point/freezing	No data available
Boiling point or initial boiling point and boiling	No data available
Flammability	Non-flammable
Lower and upper explosion	No data available
Flash point	No data available
Auto-ignition	No data available
Decomposition	No data available
PH	No data available
Kinematic viscosity	Not applicable
Solubility	No data available
Partition coefficient n-octanol/water (log)	No data available
Vapour pressure	No data available
Relative vapour	No data available
Density and/or relative	.088+-0.05% g/cm3
Particle	No data available

9.2. Other information: Not available.**SECTION 10. STABILITY AND REACTIVITY****10.1. Reactivity: Not reactive under normal handling and storage.****10.2. Chemical stability: Stable under normal temperatures and pressures.****10.3. Possibility of hazardous reactions: Not reactive under normal handling and storage.****10.4. Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 10.5. Incompatible materials: No information available.****10.6. Hazardous decomposition products: No information available.****SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Ingredient (s)	CAS No.	LD 50/LC 50 (Median lethal dose)
1-Butene, polymer with ethene and 1-propene	25895-47-0	No data available
Classification of the whole product:		Not classified

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Skin corrosion/irritation: No classification for this product.

Serious eye damage/eye irritation: No classification for this product.

Respiratory sensitizer: No classification for this product.

Skin sensitizer: No classification for this product.

Germ cell mutagenicity: No classification for this product.

Carcinogenicity: No classification for this product.

ReproductiveToxicity:No classification for this product.

Specific target organ toxicity, single exposure:

No classification for this product.

Specific target organ toxicity, repeated exposure:

No classification for this product Aspiration hazard:

Acute toxicity

: Not classified, No end point data for material

11.2 Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

11.2.1 Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties: No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity

: Not expected to be harmful to aquatic organisms.

Chronic toxicity

: Not expected to demonstrate chronic toxicity to aquatic organisms.

12.2 Persistence and degradability

: No information available.

12.3 Bioaccumulative potential

: No information available.

12.4 Mobility in soil

: No information available

12.5 Results of PBT & vPvB assessment: This product does not contain any substances that are assessed to be a PBT or a vPvB

12.6 Endocrine disrupting properties: This product does not contain any substance which has been defined as

12.7 having endocrine disrupting properties.

12.8 Other adverse effects: No information available.

12.9. Additional information: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

: Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

13.2 Other information

: Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

European Waste Code: 08 04 10. NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

SECTION 14. TRANSPORT INFORMATION

ADR and RID / Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG.:

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name: Not applicable

14.3. Transport hazard class (es): Not applicable

14.4. Packing group: Not applicable

14.5. Assigned Pictogram: Not applicable

14.6. Environmental hazards (Marine Pollutant (Yes/No)): No.

14.7. EMS NO.: Not

14.8. Special precautions for user: Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

14.9. Maritime transport in bulk according to IMO instruments: Not applicable

SECTION 15. REGULATORY INFORMATION

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

Candidate List of Substances of very high concern (SVHC) according to ECHA: Not listed.

REACH Regulation Annex XVII Regulation List: Not listed.

REACH Regulation Annex XIV Authorization List: Not listed.

Germany – WGK: Not classified

15.2 Chemical Safety Assessment : A chemical Safety Assessment has not been carried out

Other relevant regulations :

Sara

Section 355(extremely hazardous substances): Not listed

SARA 313: Not listed

Toxic Substances Control Act (TSCA)

Ingredients	CAS No.	TSCA Inventory
1-butene, polymer with ethene and 1-propene	25895-47-0	Listed

Clean Water Act

Chemical Name	CWA-Reportable Quantities	CWA-Toxic Pollutants	CWA-Priority Pollutants	CWA-Hazardous Substances
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Chemical safety assessment : Not applicable for the substance.

SECTION 16. OTHER INFORMATION**16.1 Revision comments**

A line in the margin combined with text rendered in red indicates a relevant amendment from the previous version.

16.2 Abbreviations and acronyms used in the safety data sheet

Hazard statements (Section 3) : None included.

Control parameters (Section 8) : ACGIH = Association Advancing Occupational and Environmental Health

TWA = Time Weighted Average

Toxicological information (Section 11): None included

Ecological information (Section 12) : PBT = Persistent, Bio accumulative and Toxic
vPvB = very Persistent and very Bio accumulative

Transport information (Section 14) : ADN = European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR = European Agreement Concerning the International Carriage of Dangerous Goods by Road.

IATA = International Air Transport

Association. ICAO = International Civil Aviation Organization. IMDG = International Marine Dangerous Goods.

MARPOL = International Convention for the Prevention of Pollution From Ships; MARPOL is short for Marine Pollution.

Full description of some acronyms:

CAS-Chemical Abstracts Service

EINECS-European Inventory of Existing Commercial Chemical Substances

IMO-International Maritime Organization

IMDG-International Maritime Dangerous Goods

IATA-International Air Transport Association

ICAO-International Civil Aviation

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Organization
TSCA-Toxic Substances Control Act
OSHA-Occupational Safety and Health
Administration
ACGIH-American Conference of
Governmental Industrial

16.3 References and sources for data : Various sources of literature and internal (test) data available are used

16.4 Other information and disclaimer

The content and format of this safety data sheet is in accordance with Regulation 1907/2006/EC, amendment EC 2020/878.

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements for professional users in the manufacturing, distribution and industrial use of the product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

It should not be construed as guaranteeing any specific property of the product. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage in any form resulting from its use can be accepted.