

SAFETY DATA SHEET (SDS / MSDS)

TWIST WAVE 50

MANUFACTURER REFERENCE SDS - DESTINATION-MARKET REVIEW REQUIRED

Manufacturer reference version. The assessment uses the confirmed fixed PP/PE formulation, actual raw-material identity records, the supplied solid-fibre form and reviewed authoritative polyolefin safety data.

1 IDENTIFICATION

Product identifier: TWIST WAVE 50

Covered Conchip products: Twist Wave 50

Recommended use: Synthetic fibre article for concrete or mortar applications. Use only after project and process verification.

Manufacturer: Shandong Kairuida Building Materials Co., Ltd.

Registered address: No. 218-9, Gaowu Road, South of Xinba Road, Qingtian Subdistrict, Binzhou High-tech Industrial Development Zone, Binzhou, Shandong, China.

International sales: Tai Pu Shi Da (Binzhou) New Materials Technology Co., Ltd.

Email / general phone: songpingping69@gmail.com | +86 159 6543 3989

24-hour product-safety emergency contact: Wang Wei | +86 159 6543 3989 | China Standard Time (UTC+8). For immediate medical, fire or spill assistance, also contact the local emergency service or poison information centre.

2 HAZARD(S) IDENTIFICATION

GHS classification: Not classified as hazardous for the supplied solid-fibre form based on available information. No GHS pictogram, signal word or hazard statement is assigned. See Other hazards below.

Other foreseeable hazards: Combustible polymer solid. Molten material can cause severe thermal burns. Cutting, grinding or high-energy handling may create irritating fragments or combustible dust. Static charge may accumulate. Avoid uncontrolled release of fibres to the environment.

3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS	CONTENT	BASIS / NOTE
Polypropylene	9003-07-0	83.3%	25 kg in the confirmed 30 kg formulation.
High-density polyethylene	9002-88-4	16.7%	5 kg in the confirmed 30 kg formulation; no additional additives introduced by Kairuida.

4 FIRST-AID MEASURES

Eye contact: Rinse cautiously with clean water. Remove contact lenses if easy to do. Obtain medical advice if irritation persists.

Skin contact: Wash with soap and water. For contact with molten polymer, cool immediately with water; do not remove adhered material. Obtain urgent medical attention for burns.

Inhalation: Move to fresh air if dust, smoke or thermal-decomposition fumes are inhaled. Seek medical attention if symptoms occur.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if a significant amount is swallowed or symptoms occur.

5 FIRE-FIGHTING MEASURES

Suitable media: Water fog, foam, dry chemical or carbon dioxide, selected for the surrounding fire.

Specific hazards: The product is a combustible polymer solid. Fire or thermal decomposition can produce smoke, carbon monoxide, carbon dioxide and other hydrocarbon decomposition products.

Firefighter protection: Use self-contained breathing apparatus and protective equipment. Cool exposed packages and prevent contaminated fire water from entering drains or waterways where practicable.

6 ACCIDENTAL RELEASE MEASURES

Keep unnecessary personnel away. Avoid creating airborne fibre fragments or dust. Loose fibres may create a housekeeping and slip/trip nuisance.

Sweep or vacuum using equipment suitable for combustible polymer dust where applicable. Place recovered material in a labelled container for reuse, recycling or disposal. Prevent entry to drains and waterways.

7 HANDLING AND STORAGE

Handling: Keep away from flame, hot surfaces and uncontrolled ignition sources. Minimize dust and fibre fragments. Control static where large quantities or pneumatic transfer can generate charge. Do not eat, drink or smoke in handling areas.

Storage: Keep packaging closed in a dry, cool, ventilated area, protected from direct sunlight, moisture and heat. Segregate from strong oxidizers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No product-specific occupational exposure limit has been established in the available records. If dust is generated, apply the relevant destination-country limits for otherwise unclassified particulates.

Engineering controls: Normal handling generally requires good housekeeping and ventilation. Use local exhaust for cutting, grinding, thermal processing or any operation that generates dust or fumes.

PPE: Safety glasses and work gloves are recommended where fibre contact is frequent. Use heat-resistant gloves for hot material. Respiratory protection should be selected by risk assessment when ventilation does not adequately control dust or fumes.

9 PHYSICAL AND CHEMICAL PROPERTIES

Solid pearl-white twisted fibres; no characteristic odour reported. Finished-product melting range, density, auto-ignition temperature and decomposition temperature have not been determined. Because this is a PP/HDPE blend, no single resin melting value is assigned to the finished fibre. Water solubility: insoluble.

Boiling point, flash point, vapour pressure, pH, viscosity and vapour density: not applicable to the supplied solid article or not determined, as appropriate. Water solubility: negligible to insoluble.

10 STABILITY AND REACTIVITY

Stable under recommended storage and normal use. Avoid prolonged high temperature, open flame and uncontrolled static discharge where dust is present.

Incompatible materials: strong oxidizers. Hazardous reactions are not expected under normal use. Combustion or overheating may generate smoke, carbon monoxide, carbon dioxide and other organic decomposition products.

11 TOXICOLOGICAL INFORMATION

No toxicological tests on the finished Conchip fibre product are available in the project records. The current assessment therefore uses confirmed composition, product form and reference information for comparable polyolefin materials.

At ambient temperature, the principal foreseeable effects are mechanical eye, skin or respiratory irritation from fibre fragments or dust. Molten polymer can cause thermal burns. Fumes from overheating or fire may irritate the respiratory tract.

Carcinogenicity, mutagenicity, reproductive toxicity, sensitization, specific target-organ toxicity and numerical acute-toxicity values have not been established by finished-product testing in the available records.

12 ECOLOGICAL INFORMATION

No finished-product ecotoxicity data are available. Polyolefin material is poorly soluble and persistent in the environment. Prevent fibre waste and packaging from entering drains, soil or waterways; collect losses to limit plastic pollution.

13 DISPOSAL CONSIDERATIONS

Reuse or recycle clean material where suitable facilities exist. Dispose of product and packaging through authorized channels in accordance with local, regional and national rules. Do not discharge to sewer or open-burn.

14 TRANSPORT INFORMATION

UN number: not assigned. UN proper shipping name, transport hazard class and packing group: not applicable. Based on available composition and the supplied solid form, the product is not regulated as dangerous goods under ADR/RID, IMDG or IATA. Confirm current destination and carrier requirements before dispatch.

15 REGULATORY INFORMATION

This English 16-section manufacturer reference SDS is compiled from product-specific information available to Shandong Kairuida and authoritative GHS-format references. It does not declare automatic compliance in every destination market; article status and SDS duties vary by jurisdiction.

Before a product is placed on a specific market, the importer or responsible party must confirm classification, required language, local supplier/contact details, ingredient disclosure, poison-centre or notification duties and applicable national regulations.

16 OTHER INFORMATION

Issue date: 2026-08-02 | **Version:** 1.0 | **Status:** Manufacturer reference SDS

Approved for release by: Song Pingping, Deputy General Manager, Shandong Kairuida Building Materials Co., Ltd.

Product-safety emergency contact: Wang Wei | +86 159 6543 3989 | 24 hours | China Standard Time (UTC+8).

Product-specific data basis: Data basis: manufacturer-confirmed 25 kg PP plus 5 kg HDPE formulation; current raw-material labels and batch quality records; reviewed authoritative general PP and HDPE SDS. Generic resin values are not presented as finished-fibre test results.

Primary external references reviewed:

OSHA Hazard Communication, 29 CFR 1910.1200 and Appendix D: <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1200AppD>

Commission Regulation (EU) 2020/878, REACH Annex II: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32020R0878>

UNECE Globally Harmonized System, Revision 10: <https://unece.org/transport/documents/2023/07/standards/ghs-rev10>

ExxonMobil General Homopolymer and Copolymer Polypropylene SDS, reviewed 2026-08-02:
<https://www.exxonmobilchemical.com/en/chemicals/webapi/dps/v1/safetydatasheets/1274280/en>

ExxonMobil High Density Polyethylene SDS, reviewed 2026-08-02:
<https://www.exxonmobilchemical.com/en/chemicals/webapi/dps/v1/safetydatasheets/1160485/en>

Important limitation: Destination-market importer or responsible party must confirm local language, contact, classification and regulatory requirements before placing the product on that market.

The information is believed accurate on the issue date and is provided for safe handling of the supplied product form. Users remain responsible for determining suitability and compliance for their operations and destination. Update this SDS when material composition, hazard information or regulatory requirements change.