SECTION 1: Identification

1.1. GHS Product identifier

Product form : Article

Trade name : Assembled roving, Direct roving, Dry chopped, strands, Wet chopped strands,Woven roving, Powder chopped strand mat, Emulsion chopped,strand mat, Glass fiber stitched fabrics, Glass fiber wet-laid mat, Glass filament yarn，Comtex roving，Comtex fabrics，Milled fiber, Pultrusion Board, Coated Tissue, VIP Insulation Board

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : No information available

Recommended use : For winding fiberglass pipe, storage tank; Suppressing car accessories, bathtubs; Used in hand lay-up FRP molding process; Reinforced plastic; Used to enhance the cement; Used for wind power generation blades； Building wall panels and industrial heat insulation Etc.

1.4. Supplier's details

Manufacturer

Taishan Fiberglass Inc.

Dawenkou Industrial Park, Tai'an City, Shandong Province, China

T +86-538-8619150

ctgtixi@ctgf.com

1.5. Emergency phone number

Emergency number : +86-538-8619150

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) : None

Signal word (GHS UN) : None

Hazard statements (GHS UN) : None

Precautionary statements (GHS UN) : None

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Product name	glass fiber, %	Size, %	adhesive, %	water, %	Aluminum foil film, %	Calcium carbonate powder, %	organic compound, %	resin, %
Assembled roving	97.45-99.70	0.30-2.35	/	0-0.20	/	/	/	/
Direct roving	98.7-99.88	0.12-1.1	/	0-0.20	/	/	/	/
Dry chopped strands	97.30-99.99	0.10-2.50	/	0-0.20	/	/	/	/
Wet chopped strands	87.84-92.00	0.00-0.20	/	8.00-12.00	/	/	/	/
Woven roving	96.8-99.6	0.40-3	/	0-0.20	/	/	/	/
Powder chopped strand	90.8-98.5	0.30-0.60	1.2-8.2	0-0.40	/	/	/	/

mat								
Emulsion chopped strand mat	87.3-98.5	0.30-0.60	1.2-11.7	0-0.40	/	/	/	/
Glass fiber stitched fabrics	92.80-99.60	0.40-7.00	/	0-0.20	/	/	/	/
Glass fiber wet-laid mat	68.84-95.00	0-0.2	5-30	0-1	/	/	/	/
Glass filament yarn	98.55-99.45	0.55-1.25	/	0-0.20	/	/	/	/
Comtex roving, Comtex fabrics	55-75	0.5-2.0	/	0-0.20	/	/	/	/
Milled fiber	98.90-99.90	0.0-1.0	/	0-0.10	/	/	/	/
Pultrusion Board	80-86	/	/	/	/	/	/	14-20
Coated Tissue	10-40	/	/	0-<1.0	/	0-85	8.0-60.0	/
VIP Insulation Board	/	<0.005	/	0-0.002	/	/	/	/

Glass fiber: CAS 65997-17-3
Note: the above products are used in E glass, TCR glass, AR glass, HMG glass, S-1HM glass, TLD glass and THM-1 glass.

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Wash immediately with soap and plenty of water. For minor skin contact, avoid spreading the material to the unaffected skin. Avoid using warm water, because warm water will cause deeper penetration. If penetration occurs, use a cleaning cloth instead of rubbing. If symptoms persist, call a doctor.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.

First-aid measures after ingestion : Not an expected route of exposure. Call a poison center or a doctor if you feel unwell. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : No information available.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : No information available.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Incomplete combustion and thermal decomposition may produce various toxic gases, such as carbon monoxide and carbon dioxide. It can be very dangerous if inhaled in a confined space or in high concentration.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin, eyes and clothing. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up	:	Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
Other information	:	Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Wear personal protective equipment. Take off contaminated clothing and wash it before reuse. Avoid breathing (dust, vapor, mist, gas). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	:	Store in a well-ventilated place. Keep cool. Keep away from heat. Keep away from food, drink and animal feedingstuffs. Keep container tight closed. Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Ensure good ventilation of the work station.
Environmental exposure controls	:	Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection	:	Protective gloves
Eye protection	:	Safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	White
Colour	:	White (Individual products have color differences)
Odour	:	Odourless.
Odour threshold	:	Not available
Melting point	:	> 800 °C
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability (solid, gas)	:	Non flammable.
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	Not applicable
Upper explosive limit (UEL)	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not applicable
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available

Density	:	2.5 – 2.7 g/cm³
Relative density	:	2.5 – 2.7
Relative vapour density at 20 °C	:	Not applicable
Solubility	:	Insoluble.
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available
Particle aspect ratio	:	Not available
Particle specific surface area	:	Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
hydrogen fluoride. fluorine.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Fiberglass dust may cause skin irritation.
Serious eye damage/irritation	:	Fiberglass dust may cause eye irritation.
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information
12.1. Toxicity
Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	:	Not classified
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- UN RTDG

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

glass fiber (65997-17-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)

glass fiber (65997-17-3)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Issue date : 20/05/2021
Revision date : 20/05/2021

Indication of changes:
No information available.

Abbreviations and acronyms : IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
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
EC50 - Median effective concentration
LC50 - Median lethal concentration
LD50 - Median lethal dose
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
Time Weighted Average

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No information available.

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.