

MATERIAL SAFETY DATA SHEET

MSDS - Multiaxial fabrics

SECTION I. MATERIAL IDENTIFICATION

A. Product name:
ECR glass fabrics (no fluorine nor boron)

B. Issuing date:
January 1st 2020

C. MSDS version No.:
JNFG-MSDS-02

SECTION II. COMPOSITION INGREDIENTS

A. CAS No.:
 * *Fiberglass: 65997-17-3*
 * *Sizing: None*

B. Chemical composition

| <i>Product Name</i> | <i>Glass, %</i> | <i>Sizing, %</i> |
|-------------------------------------|-----------------|------------------|
| <i>ECR glass multiaxial fabrics</i> | <i>>99</i> | <i>< 1.0</i> |

SECTION III. HAZARDS IDENTIFICATION

- A. Review of risk factors:** *fiberglass can cause irritation and injury to the eyes, skin, and respiratory tract.*
- B. Precautions:** *avoid direct contact with skin and eyes; avoid breathing (fiberglass) dust; be careful of eating by mistake; do not smoke or drink water in the work area; shower after work.*

SECTION IV. EMERGENCY AND FIRST AID PROCEDURE

- A. Inhalation:** *Move person to fresh air. Seek medical attention if irritation persists.*
- B. Eye contact:** *Flush eyes with running water for at least 15 minutes. Do not rub your eyes, rubbing your eyes will cause more serious injury. Seek medical attention if irritation persists.*
- C. Skin contact:** *Wash with mild soap and running water. Wash your wore clothes to*

help remove fibers. To avoid more irritation, do not rub or scratch the irritation area. Rubbing or scratching may force fibers into skin, Seek medical attention if irritation persists.

D. Ingestion: Unlikely ingestion of this material. Seek medical attention if ingestion happened.

SECTION V. FIRE AND EXPLOSIVE

A. Flashpoint: None; Flammable grade: non-flammable; Explosive: None

B. Fire extinguisher: use dry powder, foam, fire extinguisher and water.

C. Special fire treatment: the fiberglass itself does not support combustion, this product does not require special fire-protection measures, just its packaging materials to be taken some conventional fire-protection measures, in the event of a continuous fire, adequate respiratory protection should be provided. In addition, if these products are placed in a fire, the sizing, binders or stitching thread will be burned.

SECTION VI. ACCIDENTAL RELEASE MEASURES

If some of this material dropped on land, in water or in air, should firstly report to local related department and treat the materials as per the local environment laws or regulations required, the materials collected from the ground, water and air can be disposed of in a manner free of hazardous materials.

SECTION VII. HANDLING AND STORAGE

A. Operation / usage condition:

The suitable condition is that the temperature between 20 °C-30 °C, and the relative humidity between 60%-80%.

B. Storage condition

The suitable condition is that the temperature not higher than 35 °C and the relative humidity is no more than 50%, the materials should be stored in a closed space and prevent from sunlight. If in the relative humidity is more than expected, moisture-proof measures should be taken.

In addition, this material is a poor conductor, static may occur in the course of operation and storage.

SECTION VIII. EXPOSURE CONTROL & PREVENTIVE MEASURES

| Ingredient | OSHA allowed exposure limits (average value in 8 hours) | ACGIH allowed exposure limits (average value in 8 hours) |
|--|--|---|
| Non-respirable fibers and particulates | 15 mg/m ³ (total dust) | 5 mg/m ³ (inhalable fraction) |
| Breathable particles | 5 mg/m ³ (irreparable fraction) | 3 mg/m ³ (particles not otherwise classified) |
| Respirable sizing particles | None | None |

A. Respiratory protection: the materials may produce dust in the course of operation, please wear masks or other breath filters.

- B. Eyes protection: Glasses with screens on both sides should be provided.*
- C. Ventilation: General Dilution ventilation and/ or local exhaust ventilation should be provided as necessary to maintain exposures below regulatory limits.*
- D. Protective Gloves: Protective gloves should be wore when in work.*
- E. Other protective measures: The operator should be put on the loose fitting long sleeved shirt that covers to the base of neck, long pants and gloves. Skin irritation is known to occur chiefly at pressure points such as around neck, wrist, and waist and between fingers. For protecting eyes, it is can use safety glasses, goggles or face shield.*

SECTION IX. PHYSICAL DATA

| | | |
|-----------------------------------|------------------------------------|------------------------|
| <i>Boiled point: None</i> | <i>Steam pressure: None</i> | <i>PH value: None</i> |
| <i>Melting point: > 800 °C</i> | <i>Water solubility: Insoluble</i> | <i>Viscosity: None</i> |
| <i>Appearance: White</i> | <i>Physical state: Solid</i> | <i>Odour: None</i> |
| <i>Freezing point: None</i> | | |

SECTION X. STABILITY AND REACTIVITY

***Stability:** Glass fiber is usually a very stable material, there is no special need to pay attention to matters.*

***Combustion products:** The fiberglass itself does not burn, but in the case of burning, the sizing on the surface of the fiberglass, the binder or the stitched thread will be burned, mainly to produce carbon compounds, water and a small amount of other substances.*

SECTION XI. TOXICOLOGICAL INFORMATION

A. Allergic reaction: Dust from this material can cause eye and skin irritation, ingestion can cause transient throat and gastrointestinal irritation, and inhalation can cause coughing, nose and throat irritation, and sneezing.

B. Carcinogenicity: This product is not listed as a carcinogen or a potential carcinogen by the international agency for research on cancer (IARC).

C. Related research: In 2001 the International Agency for Research on Cancer (IARC) composed by 11 counties examined on the evidence obtained for the healthiness of ersatz fiber glass and the safety research again in Lyons, French. The evidence from the healthiness of ersatz fiber glass evaluated by IARC as insufficient to classify fiber glass continuous roving as a possible, probable, or confirmed cancer causing material. So the IARC decided to reduce the fiber glass continuous roving form 2B (it is possible to cause the cancer) to 3 (it is impossible to cause the cancer or do not cause the cancer at all)

SECTION XII. ECOLOGICAL INFORMATION

Fiberglass is an inert solid waste that does not require special precautions after dumping.

SECTION XIII. DISPOSAL CONSIDERATIONS

Waste fiberglass should be treated in accordance with the local environmental laws and regulations of the manufacturer or user, and the containers containing the waste should be treated as necessary before reused.

SECTION XIV. TRANSPORT INFORMATION

As with ordinary solid goods, no special controls are required during transportation.

SECTION XV. REGULATORY INFORMATION

EU and U. S. laws do not list this product as dangerous goods, users in other countries and regions please refer to local laws and regulations.

SECTION XVI. OTHER INFORMATION

None.