



# ARTICLE INFORMATION SHEET

Date: April 1, 2023

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## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

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Product name: **YUPO® FRBW**  
Manufacturer: YUPO CORPORATION  
Address: Shin-Ochanomizu Building 15F  
4-3 Kanda Surugadai, Chiyoda-ku, Tokyo 101-0062 Japan  
Phone: 81-3-5281-0817      Telefax: 81-3-5281-0819  
Prepared by: Environmental Management Department

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## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

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Main ingredients:	CAS No.:
Polypropylene	9003-07-0
Calcium carbonate	471-34-1
Titanium dioxide	13463-67-7
Additives	Proprietary

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## SECTION 3 HAZARDS IDENTIFICATION

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When used for its intended purpose, this material is not classified as a hazardous chemical under the OSHA Hazard Communication Standard.

Potential health effects: No adverse effects due to ingestion, inhalation, or skin contact are expected. As with any activity, any generated particulates may injure eye cornea through mechanical action.

Environmental effects: May not be readily biodegradable.

Emergency overview: Combustible in a fire and when over-heated.

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## SECTION 4 FIRST AID MEASURES

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Eye contact: Immediately flush eyes thoroughly with plenty of water.  
If irritation occurs, get medical attention.

Skin contact: Wash away any particulate with water.  
If burned by contact with molten material, cool as quickly as possible,  
do not peel material away from skin and get medical attention.

Inhalation: In the event of toxic fumes or vapors caused by overheating or  
combustion, remove to fresh air and restore breathing.  
If breathing is stopped, administer artificial respiration and get  
medical attention.

Ingestion: Induce vomiting with plenty of water/salt water and get medical  
attention.

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## SECTION 5 FIRE FIGHTING MEASURES

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Extinguishing media: Water spray, Foam, CO<sub>2</sub>, Dry chemicals

Specific hazards: In the event of a fire, the product will burn and irritating and toxic  
gases (CO, CO<sub>2</sub>, and hydrocarbons, etc.) may be generated by  
thermal decomposition or combustion.

Specific methods: Keep away from sources of ignition. Use appropriate extinguishing  
media. Firefighter should take upwind position.

Protection of firefighters: Wear full firefighting protective clothing and a positive pressure  
self-contained breathing apparatus.

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## SECTION 6 ACCIDENTAL RELEASE MEASURES

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Environmental precautions: Vacuum or sweep up, place in a bag and hold for waste disposal.  
Avoid generating airborne dust. Do not discharge into drains, sewers and surface waters.

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## SECTION 7 HANDLING AND STORAGE

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Storage: Store in the warehouse at ambient temperatures less than 50°C (122°F).  
Store in original package or rewrap in moisture proof wrap.  
Keep away from ignition sources such as heat, flame, spark and static build-up.  
Keep away from direct sunlight, moisture, wet and dust.  
Use local ventilation as needed if used in dusty conditions or heating processes.

Handling: Avoid ignition sources such as heat, flame, spark and static build-up.  
Avoid contact with eyes.  
Avoid breathing dust, vapor and fume.  
Avoid rough handling and dropping.  
Keep product wrapped until ready to use.  
Avoid contamination with dust, bugs and foreign material.

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## SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

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Engineering Measures:

- Ventilation Provide ventilation when necessary to maintain concentrations at a level that is adequate to protect worker health.

Personal Protection:

- Respiratory Protection For most conditions, no respiratory protection should be needed.  
If used in dusty atmosphere, use dust respirator.  
Use an air-purifying respirator when vapors and/or gases from over-heated material or combustion may cause throat and nose irritation.
- Hand Protection Wear gloves where contact may occur with moving edge or heated material.
- Eye Protection Wear eye protection appropriate for the conditions and task being performed.
- Skin Protection Wear protective clothing where cuts, abrasions or burns may occur.
- Work Hygiene Practice Wash hands and gargle after use.
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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: White opaque film  
Specific gravity: ca. 0.8  
Melting point: 160 - 165°C (320 - 330°F)  
Solubility in water: Insoluble

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## SECTION 10 STABILITY AND REACTIVITY

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Stability: Stable under normal conditions.

Flammability: Flammable in the presence of an ignition sources.

Condition to avoid: Ignition sources like as heat, flame, and spark.  
Temperature over 320°C (610°F) may cause product (resin) degradation.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products:  
CO, CO<sub>2</sub>, acetaldehyde, hydrocarbons, and oxidized hydrocarbons may be generated by thermal decomposition.

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SECTION 11 TOXICOLOGICAL INFORMATION

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Sign and Symptoms of Exposure:

This material is a polymer-based film and is not hazardous in normal storage, handling and use.

Acute oral toxicity: Calcium Carbonate: LD50: 6,450mg/kg (rat)

Acute dermal toxicity: No information is available.

Acute inhalation toxicity: No information is available.

Acute dermal irritation: Negative in patch test on sundries.

Acute eyes irritation: Particulates may irritate eye through mechanical action.  
Vapor or fume from molten material may cause eye irritation.

Carcinogenicity: Titanium Dioxide: IARC Group 2B

Mutagenicity: Negative.

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SECTION 12 ECOLOGICAL INFORMATION

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May not be readily biodegradable

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SECTION 13 DISPOSAL CONSIDERATIONS

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Treat in accordance with applicable regulations.

Disposal should be done under conditions which meet all regulations relating to waste in your country.

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SECTION 14 TRANSPORT INFORMATION

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Follow all regulations in your country.

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SECTION 15 REGULATORY INFORMATION

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Follow all regulations in your country.

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SECTION 16 OTHER INFORMATION

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The information contained herein is based on the data considered accurate.

No warranty, however, is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

YUPO CORPORATION and any subsidiaries assume no responsibility for personal injury or property damage to vendees, users or third parties caused by the product. Such vendees or users assume all risks associated with use of the product.

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End of Article Information Sheet