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SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

Product identifier

Product Family: Thermoforming Sheet

Additional identification

Chemical name: Copolyester

This SDS covers all alphanumeric suffixes for the following product models. Suffixes designate sheet dimension and w/o surface protection film.

Product model: M-EC-BW1, M-EC-BA1

Recommended use and restriction on use

Recommended use: Orthodontic and oral care appliances

Restrictions on use: None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: Shanghai Maxflex Medical Technology Co.,Ltd.

Address: 1169YuanguRD,

AntingTown, adingDistrict

Shanghai, China

Telephone: +8621-59560800

Emergency telephone number: +8621-59560800

2. Hazards identification

Classification of the substance or mixture

Prepared according to Global Harmonized System (GHS) standards.

GHS Classification

This product is not hazardous in the form in which it is shipped by the manufacturer.

GHS Label Elements

Signal word: Warning

Hazard statements: If fine particles are generated during further processing,

handling or by other means, product may form

combustible dust concentrations in air.

Other hazards which do not result in GHS

classification:

None identified.

3. Composition/Information on Ingredients

Mixtures

Chemical name	CAS number	Percent by Weight
Copolyester	Proprietary	>95%
Pigment	Proprietary	<5%

4. First aid measures

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Description of first aid measures

Inhalation: Remove exposed person to fresh air if adverse effects

are observed. Treat symptomatically. If symptoms persist,

call a physician.

Eye contact: In the case of contact with eyes, rinse immediately with

plenty of water and seek medical advice

Skin Contact: Wash off with soap and water. If symptoms persist, call a

physician. Cool skin rapidly with cold water after contact with molten material.Do not peel solidified product off the

skin.Burns must be treated by a physician.

Ingestion: Treat symptomatically. Get medical attention.

Personal Protection for First-aid Responders: When providing first aid always protect yourse

When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. After providing first aid

wash your exposed skin with soap and water.

Most important symptoms and effects, both acute

and delayed:

The molten product can cause serious burns.

Indication of any immediate medical attention and special treatment needed Treatment:

Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Extinguishing media

Suitable extinguishing media: Water spray

Dry chemical

Carbon dioxide (CO₂)

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and

spread fire.

Specific hazard arising from the chemical: Avoid generating dust; fine dust dispersed in air in

sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters

Special fire fighting procedures: Thermoplastic polymers can burn. Protect product from

flames; maintain proper clearance when using heat devices, etc. Irritating or toxic substances will be emitted upon burning, combustion or decomposition. Large masses of molten polymer held at elevated temperatures

for extended periods of time may auto-ignite.

Special protective equipment for fire-fighters: Wear full protective firegear including self-containing

breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.

6. Accidental Release Measures

Personal precautions, protective equipment and

emergency procedures:

Environmental Precautions:

Wear appropriate personal protective equipment.

Avoid release to the environment. Prevent further leakage

or spillage if safe to do so.

Pick up free solid for recycle and/or disposal.

Methods and material for containment and

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cleaning up:

Reference to other sections: See sections 8 and 13 for additional information.

7. Handling and Storage:

Advice on protection against fire and explosion: Minimize dust generation and accumulation.

Do not steam sterilize articles made with thermoplastic polyurethanes. Methylene dianiline can be generated as

a result.

Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Avoid

environmental contamination.

Advice on safe handling: Wash thoroughly after handling. Use only in area

provided with appropriate exhaust ventilation. Minimize

dust generation and accumulation.

Avoid of contact:

Conditions for safe storage:

Keep tightly closed. Store in dry, well ventilated place away from sources of

heat and direct sunlight.

Maximum Storage Temperature: Not determined.

8. Exposure Controls/Personal Protection

Control Parameters:

Occupational Exposure Limits

None of the components have assigned exposure limits.

Appropriate engineering controls:

Thermal processing operations should be ventilated to control gases and fumes given off during processing. No special requirements under ordinary conditions of use and with adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: If contact is likely, safety glasses with side shields are

recommended.

Skin Protection

Hand Protection:To avoid burns from contact with molten product, use

thermal insulating gloves. Suitable gloves can be

recommended by the glove supplier.

Other: Gloves, coveralls, apron, boots as necessary to minimize

contact. Do not wear rings, watches or similar apparel that could entrap the material. Long sleeve shirt is

recommended.

Respiratory Protection: Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment

demonstrates that exposures are within recommended exposure guidelines. Wear respiratory protection when its

use is identified for certain contributing scenario.

Hygiene measures: Observe good industrial hygiene practices. Avoid contact

with skin. Contaminated work clothing should not be

allowed out of the workplace.

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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Physical state: Solid Form: Sheets

Color: Milky white or light yellow

Odor: Odorless

Odor Threshold: No data available. No data available. pH: **Melting Point:** No data available.

Boiling Point: > 100 ℃

Flash Point: No data available. **Evaporation Rate:** No data available. Flammability (solid, gas): No data available. Upper/lower limit on flammability or explosive No data available.

limits:

Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. No data available. Vapor pressure: Vapor density (air=1): No data available. Relative density: >1.1 (20 °C)

Solubility(ies)

Solubility in Water: Insoluble in water Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available

Autoignition Temperature: No data available. **Decomposition Temperature:** No data available. Viscosity: No data available. **Explosive properties:** No data available. Oxidizing properties: No data available. **Pour Point Temperature:** No data available.

Other information

Bulk density: No data available

10. Stability and Reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Stable

Conditions to avoid: Minimize dust generation and accumulation.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: May generate carbon monoxide, carbon dioxide (CO₂)

11. Toxicological Information

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Information on likely routes of exposure

Inhalation:No data available.Ingestion:No data available.Skin Contact:No data available.Eye contact:No data available.

Information on toxicological effects

Acute toxicity

Oral

Product: May cause irritation of the gastrointestinal tract. Not

classified for acute toxicity based on available data.

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Overexposure to vapors or mist may cause dizziness,

headache, nausea, and/or flu-like symptoms. Persons with sensitive airways (e.g., asthmatics) may react to vapors. Not classified for acute toxicity based on

available data.

Skin Corrosion/Irritation:

Product: Remarks: Contact with heated material may cause

thermal burns. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Not

Remarks: Not classified as a primary eye irritant.

classified as a primary skin irritant.

Serious Eye Damage/Eye Irritation:

Product:

Skin sensitization:

Product: Remarks: Under decomposition conditions, isocyanates

may be generated from this product. Isocyanates can cause skin sensitization and/or respiratory sensitization.

Specific Target Organ Toxicity - Single

Exposure:

No data available

Aspiration Hazard: No data available

Chronic Effects

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Reproductive toxicity: No data available

Specific Target Organ Toxicity - Repeated

Exposure:

No data available

12. Ecological Information

Ecotoxicity

Fish No data available **Aquatic Invertebrates** No data available **Toxicity to Aquatic Plants** No data available Toxicity to soil dwelling organisms No data available **Sediment Toxicity** No data available **Toxicity to Terrestrial Plants** No data available **Toxicity to Above-Ground Organisms** No data available Toxicity to microorganisms No data available

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Persistence and Degradability Biodegradation

Biodegradation

No data available

Bioaccumulative potential

Bioconcentration Factor (BCF)
Partition Coefficient n-octanol / water (log

Kow)

No data available No data available

Mobility No data available

Other adverse effects

Product: Harmful to aquatic life with long lasting effects.

13. Disposal Considerations

Disposal instructions:Treatment, storage, transportation, and disposal must be

in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains

product residue which may exhibit hazards of product. Container packaging may exhibit hazards.

Contaminated Packaging:

14. Transport Information

IATA

Not regulated.

IMDG

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory Information

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

Inventory Status

Australia (AICS)

This product contains a substance that is not listed on the Australia Inventory of Chemical Substances.

Canada (DSL/NDSL)

Requires notification in Canada. Research and development samples must comply with CEPA R&D requirements.

China (IECSC)

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

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European Union (REACH)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

All components are in compliance with the Chemical Substances Control Law of Japan.

Korea (ECL)

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

New Zealand (NZIoC)

This product requires notification before sale in New Zealand.

Philippines (PICCS)

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

United States (TSCA)

All substances contained in this product are in compliance with section 5 of TSCA or are exempt. This product contains one or more polymers manufactured under the polymer exemption rule.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

16. Other Information

Other information:

Issue Date: 09.04.2022 Disclaimer: As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate, but all statements or suggestions are made

without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of

Contact supplier (see section 1)

the user.

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