



Material Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Visit OMAI on the Web at www.oday.cn www.pc-film.com

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PRODUCT IDENTIFICATION : OMAI Polycarbonate film or sheet (G series)

PRODUCT USAGE : May be used as received, processed to produce other articles, or as a component of other industrial products.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polycarbonate(100%wt, CAS No:25971-63-5), which are not expected to be hazardous.

State of substance:solid

Odor: No

Colour: Natural;

Density:1.2 g/cm³

Appearance: film and sheet

UL file: E249605

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

- Plastic film or sheet.
- Can not burn in a fire .
- Molten plastic can cause severe thermal burns.
- Vapor produced during melt processing may cause eyes, skin, and respiratory tract irritation.
- Secondary operations, such as grinding, sanding, or sawing can produce dust that may present an explosion or respiratory hazard.

HMIS Rating : Health = 0; Flammability = 1; Reactivity = 0; PPE = B

POTENTIAL HEALTH EFFECTS

INGESTION : Not acutely toxic.

INHALATION : Inhalation of product not likely due to physical form.

EYE CONTACT : Product may cause irritation or injury due to mechanical action.

SKIN CONTACT : Product may cause irritation or injury due to mechanical action.

Processing fumes may cause irritation to the eyes, skin, and respiratory tract. In cases of severe



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exposure, nausea and headache can also occur.

Grease-like processing fume condensates on ventilation ductwork, molds, and other surfaces can cause irritation and injury to skin.

MEDICAL RESTRICTIONS: There is no known human health effect aggravated by exposure to this product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the processing vapors.

SECTION 4: FIRST AID MEASURES

EYES irritation

Immediately flush eyes with plenty of water. Get medical attention, if persists. After initial flushing, remove any contact lenses.

SKIN

Wash with soap and water. Get medical attention if irritation develops or persists. For hot products, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

INGESTION

No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop.

INHALATION

No special treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

PROCESSING FUMES

Processing fumes inhalation may be irritating to the respiratory tract. If symptoms are experienced, remove victim from the source of contamination or more victims to fresh air and obtain medical advice.

SECTION 5: FIRE FIGHTING MEASURES

FIRE FIGHTING

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of





hazardous vapors and decomposition products. Water may be the most suitable extinguishing media due to its cooling properties on molten compounds.

EXTINGUISHING MEDIA

Water spray and foam. Carbon dioxide and dry chemical are not recommended because of their lack of cooling capacity may permit re-ignition.

HAZARDOUS COMBUSTION PRODUCTS

Intense heat, smoke, carbon dioxide, carbon monoxide, hydrocarbon fragments.

CONDITIONS OF FLAMMABILITY

Requires a continuous flame source to ignite.

EXPLOSION DATA

Material not sensitive to mechanical impact but is sensitive to static discharge under dust cloud conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL

Gather and store in a closed container pending a waste disposal evaluation.

SECTION 7: HANDING AND STORAGE

HANDING

When handling heated molten material, use protective equipment and ventilation recommended in Section VIII.

STORAGE

Store in a cool dry place. Avoid excessive heat and ignition sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection. Local ventilation requirements must be determined to limit exposure to processing fumes in the workplace.

PERSONAL PROTECTION

EYE/FACE

Wear safety glasses with side shields or chemical goggles.





In addition, use full-face shield when cleaning processing fume condensates from hoods, ducts, and other surfaces.

SKIN

When handling pellets or powder, avoid prolonged or repeated contact with skin. Wear long pants, long sleeves, well-insulated gloves, and a face shield during melt processing. Appropriate clothing - including chemical resistant gloves – should be worn to prevent contact with processing fumes condensate.

RESPIRATORY

When using this product at elevated temperatures, implement engineering systems, administrative controls, or a respiratory protection program (including a respirator approved for protection from organic vapors, acid gases, and particulate matter) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust or powders are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	: Solid
ODOR AND APPEARANCE	: Sheet or film with slight or not odor
MELTING POINT	: This product does not exhibit a sharp melting point but softens gradually over a wide range of temperatures.
VAPOR PRESSURE (mmHg)	: Not applicable.
SPECIFIC GRAVITY (Water=1):	>1
WATER SOLUBILITY	: Insoluble.
%VOLATILES	: Negligible

SECTION 10: STABILITY AND REACTIVITY

STABILITY

Stable

REACTIVITY

Not reactive under recommended conditions of handling, storage, processing, and use.

CONDITIONS TO AVOID

Do not exceed melt temperature recommendations in product literature. See section 8 for respiratory protection advice.

HAZARDOUS DECOMPOSITION

Processing fumes evolved at recommended processing conditions may include trace levels of phenol, alkyl phenols, and diary carbonate.





SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE HEALTH HAZARDS

ACUTE ORAL

Estimated to be >5.0g/kg

ACUTE DERMAL

Product not considered primary skin irritant. Draize Skin Primary Irritation Score (rabbit) for similar products, in finely divided form, for a 24-hour exposure is 0. Dermal LD50 (rabbit) >2g/kg, estimated.

ACUTE INHALATION

Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace situations. No deaths or signs of toxicity, expect transient irritancy in some cases, were noted during the 6hour fume exposure tests. There were no distinct or consistent treatment related tissue or organ changes noted in gross necropsies.

EYE CONTACT

Product may cause irritation or injury due to mechanical action.

SKIN CONTACT

Product may cause irritation or injury due to mechanical action.

SECTION 12: ECOLOGICAL INFORMATION

GENERAL : This material is not expected to be harmful to the ecology.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL

Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fumes condensates and incinerator ash should be tested to determine waste classification. Spent or discarded material is not expected to be a hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

Instruction for transportation

Regulation for international transportation: avoid of being wet, not treat with rudely, keep the package not broken.

Transportation term



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The products can be transported by sea, air and inland transportation.

SECTION15: REGULATORY INFORMATION

WEEE/ROHS DIRECTIVE conforms
REACH DIRECTIVE conforms

SECTION16: REMARK

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