

SDS Report

Sample Description

Cast Acrylic Sheet

GreenTick

Applicant

Taizhou Yongning Acrylic Products Co., Ltd.

PONY 谱尼测试
Pony Testing International Group
www.ponytest.com



No.: BPI9IFPF24016516

Code: 6winqhdu

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 1 of 12

Safety Data Sheet (SDS)

According to GHS (ST/SG/AC.10/30/Rev.8)

Cast Acrylic Sheet

Section 1: Identification

Chemical Product name: Cast Acrylic Sheet

Alternative names: PMMA

Company product code: GreenTick

Recommended use: Rating plate, signs, exhibition, light-fixture, lighting boxes, stationery, gifts, transportation facilities, optical instruments, aquarium series, furniture, sanitary, medical and other fields.

Restrictions on use: --

Supplier name: Taizhou Yongning Acrylic Products Co., Ltd.

Address: No.66, Chuanghui Road, Xinghua Economic Development Zone, Jiangsu Province, 225700, the people's Republic of China

Phone number: +86(523) 8373 2808

FAX: +86(523) 8355 0889

E-mail: 517653215@qq.com

Emergency phone number: +86(523) 8373 2808

Section 2: Hazard identification

Classification of the substance: Not Classified.

GHS label elements:

Pictogram(s): --

Signal word: --

Hazard statement(s): --

Precautionary statement(s):

•**Prevention:** --

•**Response:** --

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 2 of 12

•Storage: --

•Disposal: --

Other Hazards:

Combustible. Gives off irritating or toxic fumes (or gases) in a fire. Finely dispersed particles form explosive mixtures in air.

May cause eye irritation.

See Section 12 for environmental hazards.

Section 3: Composition/information on ingredients

Mixture.

Chemical Name	CAS No.	Composition (% by weight)
Poly(methyl methacrylate)	9011-14-7	>99
Methyl methacrylate (stabilized)	80-62-6	<1

Section 4: First-aid measures

Inhalation	IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get emergency medical help immediately.
Skin Contact	IF ON SKIN: Take off contaminated clothing , and wash with plenty water and soap. If skin irritation occurs: Get medical help.
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: Get medical help.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help if you feel unwell.

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 3 of 12

Personal protective equipment for first-aid responders: Use proper personal protective equipment as indicated in Section 8.

Most important symptoms/effects, acute and delayed: See Section 11 for more information.

Indication of immediate medical attention and special treatment needed:
Treat symptomatically.

Section 5: Fire-fighting measures

Suitable extinguishing media:

- Powder
- Water spray
- alcohol-resistant foam,
- Carbon dioxide

Unsuitable extinguishing media:

Water may be ineffective.

Do NOT direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

Specific Hazards arising from the chemical:

Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or someother oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).

May emit acrid smoke.

Combustion products include:

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- other pyrolysis products typical of burning organic material.

Specific protective actions for fire-fighters:

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves.

Prevent, by any means available, spillage from entering drains or water courses.

Use water delivered as a fine spray to control fire and cool adjacent area.

DO NOT approach containers suspected to be hot.

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 4 of 12

Cool fire exposed containers with water spray from a protected location.
If safe to do so, remove containers from path of fire.
In the event of fire, wear self-contained breathing apparatus and protective suit.
Structural firefighters' protective clothing will only provide limited protection.
Equipment should be thoroughly decontaminated after use.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8.

Environmental precautions:

See section 12.

Methods and materials for containment and cleaning up:

SMALL SPILLS

Clean up all spills immediately.

Secure load if safe to do so.

Bundle/collect recoverable product.

Collect remaining material in containers with covers for disposal.

LARGE SPILLS:

Clean up all spills immediately.

Wear protective clothing, safety glasses, dust mask, gloves.

Secure load if safe to do so. Bundle/collect recoverable product.

Use dry clean up procedures and avoid generating dust.

Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).

Water may be used to prevent dusting.

Collect remaining material in containers with covers for disposal.

Flush spill area with water.

Section 7: Handling and storage

Precautions for safe handling:

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 5 of 12

NO open flames.
Avoid generation of static electricity. Earth all lines and equipment.
Avoid all personal contact, including inhalation.
Wear protective clothing when risk of exposure occurs.
Use in a well-ventilated area.
Prevent concentration in hollows and sumps.
DO NOT enter confined spaces until atmosphere has been checked.
DO NOT allow material to contact humans, exposed food or food utensils.
Avoid contact with incompatible materials.
When handling, DO NOT eat, drink or smoke.
Keep containers securely sealed when not in use.
Avoid physical damage to containers.
Always wash hands with soap and water after handling.
Work clothes should be laundered separately. Launder contaminated clothing before re-use.
Use good occupational work practice.
Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Conditions for safe storage:
Store in a well-ventilated place.
Consider explosion-proof machines designed to be grounded during storage and use.
Keep container tightly closed.
Away from incompatible materials and food and drink.
Avoid storage with strong oxidants, strong acids and strong bases.

Section 8: Exposure controls/personal protection

Occupational exposure limits:

CAS No.	ACGIH TLV	NIOSH REL	OSHA PEL
9011-14-7	No data available	No data available	No data available
80-62-6	50 ppm TWA 100 ppm STEL Sensitizer	100 ppm (410 mg/m ³) TWA	100 ppm (410 mg/m ³) TWA

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 6 of 12

	Not classifiable as a human carcinogen		
--	--	--	--

Emergency limits

CAS No.	Revised IDLH
9011-14-7	No data available
80-62-6	1000ppm

Appropriate engineering controls:

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.
Local exhaust ventilation usually required.
Ventilation equipment should be explosion-resistant.
If risk of overexposure exists, wear approved respirator.
Provide adequate ventilation in warehouse or closed storage area.

Personal protective equipment:

Eyes Protection:

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.
- Eye wash unit.

Skin and Body Protection:

- When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.

Respiratory Protection:

RECOMMENDED RESPIRATOR: Where the neat test chemical is weighed and diluted, wear a NIOSH-approved half face respirator equipped with an organic vapor/acid gas cartridge (specific for organic vapors, HCl, acid gas and SO₂) with a dust/mist filter.

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 7 of 12

Hand Protection:

Protective gloves eg. Leather gloves or gloves with Leather facing.
Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.
- nitrile rubber.
- butyl rubber.
- polyvinyl chloride.

Gloves should be examined for wear and/ or degradation constantly.

Thermal hazards: No data available.

Section 9: Physical and chemical properties

Physical State: Colorless transparent solid (sheets)

Odour: odorless

Odour threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Boiling point or initial boiling point and boiling range: No data available

Flash Point: No data available

Explosive limits: No data available

Vapour pressure: No data available

Density / Relative density: No data available

Relative vapor density: No data available

Solubility in Water: Immiscible

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Kinematic viscosity: No data available

Explosive properties: No data available

Oxidising properties: No data available

Particle characteristics: No data available

Flammability (solid, gas): No data available

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 8 of 12

Section 10: Stability and reactivity

Reactivity:

CAS#80-62-6

This generates fire or explosion hazard. Reacts with strong acids and strong bases.

Chemical Stability:

CAS#80-62-6

The substance may polymerize due to warming or due to heating, under the influence of light, polymerization catalysts and strong oxidants.

Conditions to Avoid: See section 7.

Incompatibilities with Other Materials: Strong acids and strong oxidants.

Hazardous Decomposition Products: See section 5.

Section 11 – Toxicological information

Acute toxicity:

CAS No.	LD ₅₀ /LC ₅₀
9011-14-7	No data available
80-62-6	LD ₅₀ = 7872 mg/kg rat oral LD ₅₀ > 5000mg/kg rabbit dermal

Skin irritation/corrosion:

CAS#80-62-6

/HUMAN EXPOSURE STUDIES/ 50 medical students were exposed to pellets of cotton saturated with MMA (purity, stabilizer content not indicated), sealed with elastic bandages, for 48 hr on one forearm. 21 individuals showed a mild skin irritation after removal of the patches. 10 days later the same individuals were exposed in a similar way on the other forearm. No skin reactions were seen immediately after removal of the patches at 48 hr, but a few hr to 4 days later skin erythema occurred in 10 of the individuals.

(European Commission, ESIS; IUCLID Dataset, Methyl methacrylate (80-62-6) p.334 (2000 CD-ROM edition). Available from, as of February 24, 2010)

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 9 of 12

Serious eye damage/irritation: No data available.

Respiratory or Skin sensitisation:

CAS#80-62-6

May cause an allergic skin reaction.

(ECHA)

Germ cell mutagenicity: No data available.

Carcinogenicity:

CAS#9011-14-7

Not classifiable as a human carcinogen.

(IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans Volume 19)

CAS#80-62-6

Methyl methacrylate is not classifiable as to its carcinogenicity to humans (Group3). IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-PRESENT. (Multivolume work).

Reproductive toxicity: No data available.

Specific target organ toxicity-Single exposure:

CAS#80-62-6

May cause respiratory irritation.

(ECHA)

Specific target organ toxicity-Repeated exposure: No data available.

Aspiration hazard:

Processes involved in prodn & processing are usually totally enclosed & type of accidents that may occur will be burns to skin or eyes or asphyxiation or intoxication due to inhalation of vapors escaping from leaks.

Section 12 - Ecological information

Toxicity:

CAS No.	Ecological Toxicity
9011-14-7	No data available
80-62-6	96hr LC ₅₀ for fish>100mg/L NOEC for fish=9.4mg/L

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 10 of 12

	48hr EC ₅₀ for crustacean=69mg/L NOEC for crustacean=37mg/L 72hr EC ₅₀ for algae or other aquatic plants>110mg/L NOEC for algae or other aquatic plants=110mg/L
--	--

Persistence and degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: No data available.

Section 13 - Disposal considerations

Disposal method:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

The generation of waste should be avoided or minimized wherever possible.

Contaminated Packaging:

Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 - Transport information

Sea transport (IMDG CODE 39-18 edition)

UN Number: --

Proper Shipping Name(PSN): --

Class or division: --

Subsidiary hazard: --

Marine Pollutant (Y/N): N

UN Packing group: --

Packing Label/Mark: --

Other Information: --

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 11 of 12

Special precautions for user: --

Land transport (TDG21st)

UN Number: --

Proper Shipping Name(PSN):--

Class or division: --

Subsidiary hazard: --

UN Packing group: --

Packing Label/Mark: --

Other Information: --

Section 15: Regulatory information

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

CAS No.	TSCA	IECSC	ENCS	DSL/NDSL	EINECS
9011-14-7	Listed	Listed	Listed	DSL	Listed
80-62-6	Listed	Listed	Listed	DSL	Listed

Section 16 - Other information

Issue Time: 2021-01-07

Issue Department: Technical department

Modification record:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other Information:

Product name: Cast Acrylic Sheet
Revised time: /

Report ID: BPI9IFPF24016516
Page 12 of 12

CAS: (Chemical Abstracts Service);
EC: (European Commission);
ACGIH: (American Conference of Governmental Industrial Hygienists);
NIOSH: (US National Institute for Occupational Safety and Health);
OSHA: (US Occupational Safety and Health);
TLV: (Threshold Limit Value);
TWA: (Time Weighted Average);
STEL: (Short Term Exposure Limit);
PEL: (Permissible Exposure Level);
REL: (Recommended Exposure Limit);
PC-STEL: (Permissible concentration-time weighted average);
PC-TWA: (Permissible concentration-short time exposure limit);
LC50: (Lethal concentration, 50 percent kill);
LD50: (Lethal dose, 50 percent kill);
IARC: (International Agency for Research on Cancer);
EC50: (Median effective concentration);
BCF: (Bioconcentration Factor);
BOD: (Biochemical oxygen demand);
NOEC: (No observed effect concentration);
NTP: (US National Toxicology Program);
RTECS: (Registry of Toxic Effects of Chemical Substances);
IATA: (International Air Transport Association);
IMDG: (International Maritime Dangerous Goods);
TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations);
TOC: (Total Organic Carbon);
TSCA: (Toxic Substances Control Act of USA);
DSL: (the Domestic Substances List of Canada);
NDSL: (the Non-domestic Substances List of Canada)

***End of report ***