

PlexiCast Acrylic Material Safety Data Sheet

Sample Description

Acrylic

PlexiCast Acrylic

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sample Name: Acrylic
Sample code: 7059-1

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

Restrictions on use: N/A

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical and Chemical Hazards: Combustible. May burn/melt when exposed to high temperature or flame

Human Health Hazards: This product should not present a health hazard when used under reasonable conditions. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance. Exposure to chip in processing may be irritating to the eyes, nose and throat. Excess heating in any processing or other use will produce irritating or toxic fumes.

Environmental Hazards: The major composition of this product is polymer which is considered not easily degradable.

Specific Hazards: N/A

UN Classification: None.

European Labeling in Accordance with EC Directives 1999/45/EC: None

Important Symptoms: See Section 11 for more information.

An outline of an anticipated emergency: In case of accident or if you feel unwell, seek medical advice immediately. See Section 4 for more information.



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SECTION 3- COMPOSITION, INFORMATION ON INGREDIENTS

General Chemical Description: This chemical product is a mixture.

Composition, Information on Ingredients:

Chemical Name	Percent (by weight)	CAS No.	EC #	EU Classification
Poly(methyl methacrylate)	>99%	9011-14-7	Unlisted	None
Methyl Methacrylate	<1%	80-62-6	201-297-1	F:R 11; Xi: R 37/38-43
MACROLEX GREEN 5B GRAN	<0.1%	128-80-3	204-909-5	None
MACROLEX YELLOW 3G GRAN	<0.1%	4702-90-3	225-184-1	None
MACROLEX RED E2G GRAN	<0.1%	6829-22-7	229-904-5	None

SECTION 4- FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. Seek medical aid if cough or other symptoms appear

Skin: If contact with hot material, cool the burn area by flushing with large amounts of water. **DO NOT** attempt to remove anything from the burn area. Cover the burn area loosely with a sterile dressing, if available and seek medical attention.

Eyes: In case of contact, immediately flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do not allow victim to rub eyes. Get medical assistance.

Ingestion: Ingestion of this material is unlikely. If it does occur, seek medical advice. The person needs to be monitored for several days to make sure that partial or complete intestinal blockage does not occur.
Most Important acute and delayed symptoms/effects: See Section 11 for more information.

Protection of First-Aiders: Use proper personal protective equipment as indicated in Section 8.

Note to Physicians: Treat symptomatically and supportively.



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SECTION 5- FIRE FIGHTING MEASURES

Extinguishing Media: Use agent most appropriate to extinguish surrounding fire.

Specific Hazards: Combustible. May burn/melt when exposed to high temperature or flame. In case of fire, oxides of carbon, hydrocarbons, fumes and smoke may be generated

Specific Extinguishing Methods: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any person at risk or without suitable training. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products/materials. Move containers from fire area if this can be done without risk. Prevent run off from fire control dilution from entering streams or drinking water supply.

Protective Equipment: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Person-related Safety Precautions: Review Section 5 and Section 7 before proceeding with clean-up. Use proper personal protective equipment as indicated in Section 8.

Measures for Environmental Protection: Do not allow this material to be released to the environment without proper treatment.

Measures for cleaning/collecting: Remove all sources of ignition. Stop leak if safe to do so. Move containers from spill area. Collect up, and then place into a suitable container for disposal or recycle. Molten products should be allowed to cool and harden before cleanup.



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SECTION 7- HANDLING AND STORAGE

General Information: This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulations. Smoking should be prohibited in areas where this material is stored.

Handling: Ensure good local exhaust ventilation. Keep away from incompatible substances (see Section 10), any sources of ignition or heat (e.g. open flames, smoking, hot surfaces, excess heat). Avoid generating dust. Avoid contact with eyes. Avoid ingestion. The work area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

Storage: Store in a cool place, dry, well-ventilated area away from incompatible substances (see Section 10), any sources of ignition or heat (e.g. open flames, smoking, hot surfaces, excess heat). Inspect regularly for deficiencies such as damage or leaks. Treat carefully, avoid physical damage to containers. Do not allow scrap and cuttings to accumulate and maintain clear aisles with adequate access to all storage areas and exits. The storage area should be equipped with corresponding species and quantity of fire equipment and leakage emergency equipment.

SECTION 8-EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit: No exposure limits is listed for this product.

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Equipped with safety shower and eyes bath.

Personal Protection Equipment:

Respiratory Protection: No special requirement under normal use. An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator or a self contained breathing apparatus should be used when fire.

Hand Protection: No special requirement under normal use. It is recommended to wear appropriate protective gloves when there is the risk of greater exposure.

Eyes: No special requirement under normal use.

Skin and Body Protection: No special requirement under normal use. It is recommended to wear appropriate protective clothing when there is the risk of greater exposure.

Other Protection: Smoking should be prohibited in areas where this material is stored.



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SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear or colored plastic sheet (solid)

pH: N/A

Melting Point: N/A

Freezing Point: N/A

Boiling Point: N/A

Flash Point: N/A

Explosion Limits: N/A

Vapor Pressure: N/A

Vapor Density (Air=1): N/A

Density: N/A

Solubility: Insoluble in water.

n-octanol/water partition coefficient as log Pow: N/A

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Odor threshold: N/A

Evaporation Rate: N/A

Viscosity: N/A

SECTION 10- STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage and handling conditions

Possibility of Hazardous Reactions: Has not been reported.

Conditions to Avoid: Incompatible materials, any source of ignition or heat (e.g. open flames, smoking, hot surfaces, excess heat).

Incompatibilities with Other Materials: Strong oxidizing agents, strong bases, strong acids.

Hazardous Decomposition Products: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be generated.

Hazardous Polymerization: Will not occur.



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SECTION 11-TOXICOLOGICAL INFORMATION

Toxicological Information:

Composition: CAS# 9011-14-7	RTECS# TR0400000
Composition: CAS# 80-62-6	TRECS# OZ5075000
Composition: CAS# 128-80-3	TRECS# CB5775000
Composition: CAS# 4702-90-3	No data available
Composition: CAS# 6829-22-7	No data available

Skin irritation/corrosion:	No data available
Eye irritation/corrosion:	No data available
Respiratory or skin sensitization:	No data available
Reproductive Cell Mutagenicity:	No data available

Carcinogenicity:

Composition: CAS# 9011-14-7
IARC: Group 3- Not classifiable as to carcinogenicity to humans.
Not listed as a carcinogen by ACGIH, NTP, or CA Prop 65.

Composition: CAS# 80-62-6
ACGIH:A4-Not classifiable as a human carcinogen.
IARC: Group 3- Not classifiable as to carcinogenicity to humans.
Not listed as a carcinogen by NTP, or CA Prop 65.

Composition: CAS# 128-80-3
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Composition: CAS# 4702-90-3
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Composition: CAS# 6829-22-7
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive Toxicity:	No data available
Specific target organ toxicity-Single exposure:	No data available
Specific target organ toxicity-Repeated exposure:	No data available
Respiration Hazard:	No data available



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SECTION 11 (Continued)- TOXICOLOGICAL INFORMATION

Potential Health Effects:

Inhalation: Inhalation of this product is unlikely. Breathing chip/smoke of this product may cause irritation of the mouth, nose, and upper respiratory tract

Skin: No health effects are expected under normal use. Contact with molten material may cause burns

Eye: No health effects are expected under normal use. Contact with chip/smoke may cause eye discomfort.

Ingestion: Ingestion of this product is unlikely.

SECTION 12- ECOLOGICAL INFORMATION

Ecological Toxicity:	Not available
Persistence and degradability:	Not available
Bio accumulative Potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

Other Information: The major composition of this product is polymer which is considered not easily degradable. Do not allow this material to be released to the environment without proper treatment.

SECTION 13- DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Refer to Section 7 – Handling and Storage and Section 8 – Exposure Controls/Personal Protection for additional handling information and protection of employees.



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SECTION 14- TRANSPORT INFORMATION

Not regulated as a hazardous material for transportation. (UN TDG Rev 16;IMDG CODE 2008 edition)

UN: N/A

UN Classification: N/A

UN Proper Shipping Name: N/A

Packaging Sign: N/A

Packaging Group: N/A

Marine Pollutant (Y/N): No

Transport in bulk according to MARPOL73/78 Annex II and IBC Code: N/A

Transport fashion: By sea, by rail, by road

Packaging Information: Kraft paper, PE film, wood case board, cardboard boxes

Shipping Notice: N/A

SECTION 15- REGULATORY INFORMATION

Regulatory Information: Reference to the local, national, US, EU, CA and International regulations

CAS no.	TSCA	Canada	IECSC
9011-14-7	LISTED	LISTED IN DSL	LISTED
80-62-6	LISTED	LISTED IN DSL	LISTED
128-80-3	LISTED	LISTED IN DSL	LISTED
4702-90-3	LISTED	LISTED IN DSL	LISTED
6829-22-7	LISTED	LISTED IN DSL	LISTED

SECTION 16- ADDITIONAL INFORMATION

Issue time: 2011-07-01

Issue Department: Technical department

Notice to reader:

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. List of all R phrases mentioned in the document:

F: HIGHLY FLAMMABLE

Xi: IRRITANT

R 11: HIGHLY FLAMMABLE

R 37/38: IRRITATING TO RESPIRATORY SYSTEM AND SKIN

R 43: MAY CAUSE SENSITIZATION BY SKIN CONTACT



SECTION 16 - ADDITIONAL INFORMATION

ACGIH: (American Conference of Governmental Industrial Hygienists); BCF (Bioconcentration Factor); BOD (Biochemical Oxygen Demand); CAS (Chemical Abstracts Service); DSL (the Domestic Substances List of Canada); EC (European Commission); EC50 (Median Effective Concentration); IARC (International Agency for Research on Cancer); IATA (International Air Transport Association); IECSC (Inventory of Existing Chemical Substances in China); IMDG (International Maritime Dangerous Goods); LC50 (Lethal concentration, 50 percent kill); LD50 (Lethal dose, 50 percent kill); NDSL (the Non-domestic Substances List of Canada); NIOSH (US National Institute for Occupational Health and Safety); NOEC (No observed effect concentration); NTP (US National Toxicology Program); OSHA (US Occupational Safety and Health); PC-STEL (permissible concentration short time exposure limit); PEL (Permissible Exposure Limit); REL (Recommended Exposure Limit); RTECS (Registry of Toxic Effects of Chemical Substances); SADT (self Accelerating Decomposition Temperature); STEL (Short Term Exposure Limit); TDG (Recommendations on the Transport of Dangerous Goods Model Regulation); TLV (Threshold Limit Value); TOD (Total Organic Carbon); TSCA (Toxic Substances Control Act of USA); TWA (Time Weighted Average).