

**PLEXIGLAS® MC COLORED ACRYLIC SHEET****1. PRODUCT AND COMPANY IDENTIFICATION****Company**

Arkema Inc.  
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Altuglas International

Customer Service Telephone Number: (800) 523-1532  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

**Emergency Information**

Transportation: CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)  
Medical: Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

**Product Information**

Product name: PLEXIGLAS® MC COLORED ACRYLIC SHEET  
Synonyms: See Section 16 for list of grades  
Molecular formula: Mixture  
Chemical family: Acrylic copolymers  
Product use: Polymers industry, Special applications, in general

**2. HAZARDS IDENTIFICATION****Emergency Overview**

Color: various colours  
Physical state: solid  
Form: sheets  
Odor: odourless

**\*Classification of the substance or mixture:**

Not a hazardous substance or mixture.

**GHS-Labeling****Supplemental Hazard Statements:**

Processing may release vapors and/or fumes which cause eye, skin and respiratory tract irritation.

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**Supplemental information:**

**Potential Health Effects:**

The product, in the form supplied, is not anticipated to produce significant adverse human health effects. Contains high molecular weight polymer(s). Effects due to processing releases or residual monomer: Irritating to eyes, respiratory system and skin. Possible cross sensitization with other acrylates and methacrylates. Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness, (severity of effects depends on extent of exposure).

**Other:**

Handle in accordance with good industrial hygiene and safety practice. (sheets) Secondary operations, such as grinding, sanding or sawing, can produce dust which may present a respiratory hazard. This product may release fume and/or vapor of variable composition depending on processing time and temperature.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	Wt/Wt	GHS Classification**
Acrylic copolymers	Proprietary*	<= 100 %	Not classified
Sulfuric acid, barium salt (1:1)	7727-43-7	< 5 %	Not classified
Titanium oxide (TiO <sub>2</sub> )	13463-67-7	< 5 %	Not classified
Acrylic styrene polymer	Proprietary*	< 5 %	Not classified

\*The specific chemical identity is withheld because it is trade secret information of Arkema Inc.

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES**

**4.1. Description of necessary first-aid measures:**

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**Inhalation:**

If inhaled, remove victim to fresh air.

**Skin:**

In case of contact, immediately flush skin with plenty of water. If molten polymer gets on the skin, cool rapidly with cold water. Do not peel solidified product off the skin. Obtain medical treatment for thermal burns. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

Immediately flush eye(s) with plenty of water. Obtain medical treatment for thermal burns.

**Ingestion:**

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed:**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

**4.3. Indication of immediate medical attention and special treatment needed, if necessary:**

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**5. FIREFIGHTING MEASURES****Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

Heated material can form flammable vapors with air.

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Nitrogen oxides

sulfur oxides

Metal oxides

Hazardous organic compounds

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Pick up and transfer to properly labelled containers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

**7. HANDLING AND STORAGE**

**Handling**

**General information on handling:**

Avoid breathing dust.  
 Avoid breathing processing fumes or vapors.  
 Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

**Storage**

**General information on storage conditions:**

Avoid extreme temperatures. Keep in a dry, cool place.

**Storage incompatibility – General:**

Store away from sources of heat and light.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Airborne Exposure Guidelines:**

**Sulfuric acid, barium salt (1:1) (7727-43-7)**

US. ACGIH Threshold Limit Values

Form:	Inhalable fraction.
Time weighted average	5 mg/m <sup>3</sup>
Remarks:	The value is for particulate matter containing no asbestos and <1% crystalline silica.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Form:	Respirable fraction.
PEL:	5 mg/m <sup>3</sup>

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

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Form: Total dust  
PEL: 15 mg/m<sup>3</sup>

**Titanium oxide (TiO<sub>2</sub>) (13463-67-7)**

## US. ACGIH Threshold Limit Values

Time weighted average 10 mg/m<sup>3</sup>

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Form: Total dust  
PEL: 15 mg/m<sup>3</sup>

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

**Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Respiratory protection:**

Avoid breathing dust. Avoid breathing processing fumes or vapors. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components and substances released during processing. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Processing of this product releases vapors or fumes which may cause skin irritation. Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after contact with processing fumes or vapors. Wash thoroughly after handling.

**Eye protection:**

Use good industrial practice to avoid eye contact. Processing of this product releases vapors or fumes which may cause eye irritation. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	various colours
<b>Physical state:</b>	solid
<b>Form:</b>	sheets
<b>Odor:</b>	odourless
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	Not applicable
<b>Auto-ignition temperature:</b>	> 572 °F (300 °C)
<b>Lower flammable limit (LFL):</b>	Not applicable
<b>Upper flammable limit (UFL):</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Density:</b>	Not applicable
<b>Specific Gravity (Relative density):</b>	No data available
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Boiling point/boiling range:</b>	No data available
<b>Melting point/range:</b>	No data available
<b>Freezing point:</b>	No data available.
<b>Evaporation rate:</b>	No data available
<b>Solubility in water:</b>	insoluble
<b>Viscosity, dynamic:</b>	No data available
<b>% Volatiles:</b>	0 %
<b>Oil/water partition</b>	No data available.

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**coefficient:****Thermal decomposition:** No data available**Flammability:** See GHS Classification in Section 2 if applicable**10. STABILITY AND REACTIVITY****Stability:**

This material is chemically stable under normal and anticipated storage, handling and processing conditions.

**Hazardous reactions:**

None known.

**Materials to avoid:**

None under normal conditions of use.

**Conditions / hazards to avoid:**

Avoid flames, welding arcs, potential ignition sources, or other high temperature sources which induce thermal decomposition.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products :

Carbon oxides

Nitrogen oxides

sulfur oxides

Metallic compounds

Acrylates

Methacrylates

Hazardous organic compounds

**11. TOXICOLOGICAL INFORMATION**

Data on this material and/or its components are summarized below.

**Data for Acrylic copolymers (Proprietary)****Other information**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates

**Data for Sulfuric acid, barium salt (1:1) (7727-43-7)****Acute toxicity****Oral:**

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Practically nontoxic. LD50 > 5,000 mg/kg.

**Eye Irritation:**

Not irritating. (rabbit) OECD Test Guideline 405

**Skin Sensitization:**

Not a sensitizer. LLNA: Local Lymph Node Assay. (mouse) No skin allergy was observed. (data for a similar material)

**Repeated dose toxicity**

Repeated inhalation administration to rat / affected organ(s): lung / signs: irritation / (dust)

Subchronic drinking water administration to rat / No adverse systemic effects reported. (data for a similar material)

**Carcinogenicity**

Chronic drinking water administration to rat, mouse / No increase in tumor incidence was reported. (data for a similar material)

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells, (data for a similar material)

**Human experience****Inhalation:**

Lungs: irritation, benign, dust induced lung condition. No significant impairment of lung function.

**Human experience****Skin contact:**

Skin: Non-irritating.

**Human experience****Eye contact:**

Eyes: slightly irritating.

**Data for Titanium oxide (TiO<sub>2</sub>) (13463-67-7)****Acute toxicity****Oral:**

Practically nontoxic. (rat) LD<sub>0</sub> > 5,000 mg/kg.

**Dermal:**

Practically nontoxic. (rabbit) LD<sub>50</sub> > 10,000 mg/kg.

**Inhalation:**

Practically nontoxic. (rat) 4 h LC<sub>0</sub> > 6.82 mg/l. (dust/mist)

**Skin Irritation:**

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Practically non-irritating. (rabbit)

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

**Skin Sensitization:**

Not a sensitizer. LLNA: Local Lymph Node Assay. (mouse) No skin allergy was observed.

Not a sensitizer. Buehler Test. (guinea pig) No skin allergy was observed.

**Repeated dose toxicity**

Subchronic inhalation administration to rat / affected organ(s): respiratory tract / Local irritation of the respiratory system

Subchronic oral administration to rat / No adverse effects reported.

**Carcinogenicity**

Chronic dietary administration to rat and mouse / No increase in tumor incidence was reported.

Chronic inhalation administration to rat / affected organ(s): lung / Increase in tumor incidence was reported. (Effect occurred only at levels exceeding normal clearance capacity.)

Classified by the International Agency for Research on Cancer as: Group 2B: Possibly carcinogenic to humans.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in laboratory tests using: bacteria, animal cells, yeast

**Genotoxicity****Assessment in Vivo:**

No genetic changes were observed in laboratory tests using: mice, rats

**Developmental toxicity**

Exposure during pregnancy. Oral (rat) / No birth defects were observed.

**Human experience****Skin contact:**

Skin: No skin allergy was observed.. (studied using human volunteers)

**Data for Acrylic styrene polymer (Proprietary)****Other information**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates

**12. ECOLOGICAL INFORMATION**

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**Chemical Fate and Pathway**

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No data are available.

**Ecotoxicology**

Data on this material and/or its components are summarized below.

**Data for Sulfuric acid, barium salt (1:1) (7727-43-7)**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

**Aquatic toxicity data:**

No effect up to the limit of solubility. Danio rerio (zebra fish) 96 h LC50 > 3.5 mg/l

**Aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 48 h LC50 = 14.5 mg/l

**Algae:**

No effect up to the limit of solubility. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 > 1.15 mg/l

**Microorganisms:**

Respiration inhibition / Activated sludge 3 h EC50 > 1,000 mg/l (Nominal concentration)

**Chronic toxicity to fish:**

No effect up to the limit of solubility. Danio rerio (zebra fish) 33 d NOEC > 1.26 mg/l

**Chronic toxicity to aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 21 d NOEC = 2.9 mg/l

**Chronic toxicity to aquatic plants:**

No effect up to the limit of solubility. Pseudokirchneriella subcapitata (green algae) 72 h NOEC r > 1.15 mg/l

**Data for Titanium oxide (TiO<sub>2</sub>) (13463-67-7)****Aquatic toxicity data:**

No effect up to the limit of solubility. Oncorhynchus mykiss (rainbow trout) 96 h LC50 > 100 mg/l (Nominal concentration)

No effect up to the limit of solubility. Pimephales promelas (fathead minnow) 96 h LC50 > 1,000 mg/l (Nominal concentration)

**Aquatic invertebrates:**

No effect up to the limit of solubility. Daphnia magna (Water flea) 48 h EC50 > 100 mg/l (Nominal concentration)

**Algae:**

No effect up to the limit of solubility. Pseudokirchneriella subcapitata (green algae) 72 h ErC50 > 100 mg/l (Nominal concentration)

**Microorganisms:**

Activated sludge 3 h EC0 > 1,000 mg/l

**Chronic toxicity to aquatic invertebrates:**

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**SARA Title III – Section 313 Toxic Chemicals:**

The following components are subject to reporting levels established by SARA Title III, Section 313:

<u>Chemical name</u>	<u>CAS-No.</u>	<u>De minimis concentration</u>	<u>Reportable threshold:</u>
2-Propenoic acid, ethyl ester	140-88-5	0.1 %	10000 lbs (Otherwise used (non-manufacturing/processing)) 25000 lbs (Manufacturing and processing)

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):**

<u>Chemical name</u>	<u>CAS-No.</u>	<u>Reportable quantity</u>
Sulfuric acid, barium salt (1:1)	7727-43-7	1000 lbs
Methyl methacrylate	80-62-6	1000 lbs
2-Propenoic acid, ethyl ester	140-88-5	1000 lbs
Phenol	108-95-2	1000 lbs

**16. OTHER INFORMATION**

Miscellaneous:

Grades: MC 2016, MC 2025, MC 2051, MC 2064, MC 2074, MC 2075, MC 2119, MC 2283, MC 2370, MC 2404, MC 2412, MC 2415, MC 2447, MC 2662, MC 2793, MC 3001, MC 3015, MC 3030, MC 3371, MC 3381, MC 3383, MC 3391, MC 3392, MC 7508, MC 3344, MC 2050, MC 2157, MC 2424, MC 7328, MC 3190, MC 3201, MC 2114, MC 3394

Latest Revision(s):

Reference number: 600003120  
Date of Revision: 02/15/2021  
Date Printed: 02/15/2021

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*It is the sole responsibility of the manufacturer of the medical device to determine the suitability (including biocompatibility) of all raw materials, products and components, including any medical grade Arkema products, in order to ensure that the final end-use product is safe for its end use; performs or functions as intended; and complies with all applicable legal and regulatory requirements (FDA or other national drug agencies) It is the sole responsibility of the manufacturer of the medical device to conduct all necessary tests and inspections and to evaluate the medical device under actual end-use requirements and to adequately advise and warn purchasers, users, and/or learned intermediaries (such as physicians) of pertinent risks and fulfill any postmarket surveillance obligations. Any decision regarding the appropriateness of a particular Arkema material in a particular medical device should be based on the judgment of the manufacturer, seller, the competent authority, and the treating physician.*