



Plexiglas(R) DR-86166 White Granite

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Altuglas International

Arkema Inc.
2000 Market Street
Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Altuglas International Customer Service	(800) 523-1532	8:00 am - 6:00pm EST

Product Name Plexiglas(R) DR-86166 White Granite
Product Synonym(s)

Chemical Family Acrylic Copolymer

Chemical Formula N/A

Chemical Name See Ingredients

EPA Reg Num

Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
Individual Residual Monomer	Proprietary	<1.0	Y
Titanium dioxide	13463-67-7	<1.0	Y
Cellulose, acetate butanoate	9004-36-8	<2.0	Y
Acrylic Polymer	Proprietary	96-98	N

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

White pellets with mild odor

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential Health Effects

Skin contact and inhalation of dust are expected to be the primary routes of occupational exposure to this material. As a finished product, it is a synthetic, high molecular weight polymer pellet. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type.

Titanium dioxide



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Inhalation of excessive amounts of dust is reported to produce mild and temporary respiratory tract irritation with cough, sneezing, and shortness of breath. Grossly excessive and prolonged exposure may lead to lung injury (non-progressive lung fibrosis).

4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water. Get medical attention if irritation persists.

IN CASE OF CONTACT, flush the area with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops and persists.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	>427 C/>801 F estimate	
Flash Point	NA	Flash Point Method
Flammable Limits- Upper	NA	
Lower	NA	

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

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). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

Heated material can form flammable vapors with air.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Contain spill. Sweep or scoop up and remove to suitable container. 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.

7 HANDLING AND STORAGE

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

Storage

Avoid temperature extremes during storage; ambient temperature preferred.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION



8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

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

Eye / Face Protection

Use good industrial practice to avoid eye contact.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions 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.

Airborne Exposure Guidelines for Ingredients

Exposure Limit		Value
Titanium dioxide		
ACGIH TWA	-	10 mg/m3
OSHA TWA PEL	-	15 mg/m3
Individual Residual Monomer		
ACGIH Sensitizer Designator	-	Y
ACGIH STEL	-	100 ppm (410 mg/m3)
ACGIH TWA	-	50 ppm (205 mg/m3)
OSHA TWA PEL	-	100 ppm (410 mg/m3)

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	White pellets with mild odor
pH	NA
Specific Gravity	1.15 to 1.19
Vapor Pressure	NA
Vapor Density	NA
Melting Point	132C/270F min. pour pt.
Freezing Point	NA
Boiling Point	NA
Solubility In Water	insoluble
Percent Volatile	0



10 STABILITY AND REACTIVITY

Stability

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

Hazardous Polymerization

Does not occur.

Incompatibility

Prolonged contact with acids, alkalies and strong oxidizing agents may attack or dissolve the polymer.

Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.

11 TOXICOLOGICAL INFORMATION

Toxicological Information

Titanium Dioxide

Direct administration into the lungs of rats produced lung damage (fibrosis) and inflammation. Repeated inhalation produced no adverse effects in rats. In long-term inhalation studies, toxic (rhinitis, tracheitis, pneumonia) and tumorigenic (benign and malignant tumors) effects were observed in lungs of rats. The normal clearance mechanisms of the lungs were considered to have been greatly exceeded at the high exposure levels used, and this may have contributed to the observed increase in tumors. In a similar long-term inhalation study, exposure to a lower concentration produced no tumors in rats. No tumors were observed in life-time feeding studies using rats or mice. Generally, no genetic changes were observed in standard tests using bacteria or animal cells.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information

No data are available.

Chemical Fate Information

No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name	Not Regulated
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	



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15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

	CERCLA RQ	SARA TPQ
Titanium dioxide	NE	
Individual Residual Monomer	1000 LBS	
Acrylic Polymer	NE	
Cellulose, acetate butanoate	NE	

SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2

Individual Residual Monomer

Massachusetts Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Individual Residual Monomer

Titanium dioxide

New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.

Individual Residual Monomer

Titanium dioxide

Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.

Individual Residual Monomer

Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.

Individual Residual Monomer

Titanium dioxide

16 OTHER INFORMATION

Revision Information

Revision Date	03 MAY 2005	Revision Number	6
Supersedes Revision Dated	03-MAY-2005		

Revision Summary

The Atoglas Division of Arkema Inc. has changed its name to Altuglas International.

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark



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