



SOLARKOTE(R) P611-66087 White OP

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 SOLARKOTE(R) P611-66087 White OP
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
Ethyl acrylate	140-88-5	<0.1	Y
Methyl methacrylate	80-62-6	<0.5	Y
Titanium dioxide	13463-67-7	<3.0	Y
Acrylic Styrene Copolymer	Proprietary	>97	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 acrylic odor.

CAUTION!

MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND 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.

Ethyl acrylate is classified as possibly carcinogenic to humans (Group 2B) by the International Agency for Research on



Cancer (IARC).

Titanium dioxide

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.

IN CASE OF CONTACT, flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.

IF INHALED, remove to fresh air.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE	
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 breathing dust and processing vapors. Process using 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

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated 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
Ethyl acrylate		
ACGIH STEL	-	15 ppm; 61 mg/m3
ACGIH TWA	-	5 ppm 20 mg/m3
OSHA Skin designator	-	Y
OSHA TWA PEL	-	25 ppm 100 mg/m3
Methyl methacrylate		
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 acrylic odor.
pH	NE
Specific Gravity	1.15 - 1.19
Vapor Pressure	NA
Vapor Density	NE
Melting Point	NA
Freezing Point	NA
Boiling Point	NA
Solubility In Water	insoluble

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, alkalis and strong oxidizing agents may attack or dissolve the polymer.

Hazardous Decomposition Products

Thermal decomposition may yield acrylic monomers.

Thermal decomposition begin to generate monomer vapor at 300 deg C.

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

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

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

15 REGULATORY INFORMATION

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

Immediate (Acute) Health	N	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	
Ethyl acrylate	1000 LBS	NE
Methyl methacrylate	1000 LBS	

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

- Ethyl acrylate
- Methyl methacrylate

California Prop 65 - Carcinogen

This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogens.

- Ethyl acrylate

Massachusetts Right to Know

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

- Ethyl acrylate
- Methyl methacrylate
- 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.

- Ethyl acrylate



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.

- Methyl methacrylate
- Titanium dioxide

Pennsylvania Environmental Hazard

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

- Ethyl acrylate
- Methyl methacrylate

Pennsylvania Right to Know

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

- Ethyl acrylate
- Methyl methacrylate
- Titanium dioxide

Pennsylvania Special Hazard

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

- Ethyl acrylate

16 OTHER INFORMATION

Revision Information

Revision Date 03 MAY 2005 Revision Number 5
Supercedes 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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