



# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

**Product Use:** Food packaging

**Other Designations:** PETEWICH®, RPET

PETEWICH™ is a registered trademark of Ultra Pac, Inc.

**MULTI PLASTICS, INC.**  
7770 N Central Drive  
Lewis Center, OH 43035

**Phone:** 740-548-4894

**Fax:** 740-548-5177

**Manufacturer/Supplier**  
Multi-Plastics Extrusion  
600 Dietrich Ave.  
Hazleton, Pa. 18201

**Emergency Information:**

USA: Chemtrec: 1-800-424-9300 or 1-703-527-3887

## \*\*\* Section 2 - Hazards Identification \*\*\*

### EMERGENCY OVERVIEW

Solid, sheet or pellets. Clear or various colors. Odorless. Material will burn if ignited. Dust clouds generated during processing may be explosive.

Dust from processing can cause mechanical irritation of the eyes, skin and upper respiratory tract. Contact with molten polymer can cause thermal burns.

### POTENTIAL HEALTH EFFECTS

The following statements summarize the health effects generally expected in cases of overexposures. User specific situations should be assessed by a qualified individual. Additional health information can be found in Section 11. The health effects listed below are not likely to occur unless processing or recycling/combustion generate dusts or fumes.

**Eyes:** Dust from processing: Can cause mechanical irritation.

**Skin**

Dust from processing: Can cause mechanical irritation.

Molten polymer: Contact with molten polymer can cause thermal burns.

**Inhalation:** Dust from processing: Can cause irritation of upper respiratory tract.

#### **Carcinogenicity and Reproductive Hazard**

Product as shipped: Does not present any cancer or reproductive hazards. Dust from processing: Can present a cancer hazard (carbon black, titanium dioxide). Does not present any reproductive hazards.

#### **Medical Conditions Aggravated By Exposure to Product, Components or Compounds Formed During Processing**

Dust from processing: Asthma, chronic lung disease, and skin rashes.

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

Complete composition is provided below and may include some components classified as non-hazardous.

CAS #	Component	Percent
25038-59-9	Polyethylene terephthalate	>99
1333-86-4	Carbon black	<2
13463-67-7	Titanium dioxide	<0.3

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Dust from processing: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

### First Aid: Skin

Dust from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. Molten polymer: If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burns.

### First Aid: Inhalation

Dust from processing: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### Flammable/Combustible Properties

While not considered "flammable" or "combustible" as defined by OSHA or DOT, the material will burn if ignited.

**Fire/Explosion:** Dust or fines dispersed in the air can be explosive.

### Extinguishing Media

Use dry chemical, water spray (fog), alcohol-resistant foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

### Fire Fighting Equipment/Instructions

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Small/Large Spill:** Collect scrap for recycling.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling/Storage

Avoid generating dust. Keep material off floors and walkways. Pellets can lead to serious, same level slips and falls. Store away from heat, sparks, flames, oxidizers, and other incompatible substances.

### Requirements for Processes Which Generate Dusts or Fines

If processing of these products includes operations where dust or extremely fine particulate is generated, obtain and follow the safety procedures and equipment guides contained in the National Fire Protection Association (NFPA) brochure listed in Section 16.

Local ventilation and vacuum systems must be designed to handle explosive dusts. Dry vacuums and electrostatic precipitators must not be used.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Engineering Controls

If dust or fumes are generated through processing: Use with adequate explosion-proof ventilation to meet the limits listed in Section 8, Exposure Guidelines.

### Personal Protective Equipment

#### Respiratory Protection

If dust or fumes are generated through processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional. Suggested respiratory protection: N95

#### Eye Protection

Wear safety glasses/goggles to avoid eye injury.

#### Skin Protection

Wear appropriate gloves to avoid any skin injury.

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## Exposure Guidelines

### A: General Product Information

The manufacturer recommends an Occupational Exposure Limit for **Polyethylene terephthalate** of 10 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for respirable dust, both as 8-hour TWA's.

### B: Component Exposure Limits

#### Carbon black (1333-86-4)

ACGIH 3.5 mg/m<sup>3</sup> TWA

OSHA 3.5 mg/m<sup>3</sup> TWA

#### Titanium dioxide (13463-67-7)

ACGIH 10 mg/m<sup>3</sup> TWA

OSHA 15 mg/m<sup>3</sup> TWA (total dust)

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Physical State:</b>	Solid, pellets	<b>Appearance:</b>	Clear or various colors.
<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Not determined
<b>Vapor Pressure:</b>	Not applicable	<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity:</b>	1.3-1.4	<b>pH Level:</b>	Not applicable
<b>Odor:</b>	Odorless	<b>Octanol-Water Coefficient:</b>	Not applicable

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Stability

Stable under normal conditions of use, storage, and transportation.

### Conditions to Avoid

Strong oxidizing agents, heat and ignition sources. Combustible gases can be released when heated above 572°F (300°C).

### Hazardous Decomposition

Carbon monoxide, carbon dioxide, partially oxidized organics, acetaldehyde and ethylene.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Health Effects Associated with Individual Ingredients

As supplied, the carbon black (and other colorants) in this packaging material is bound into the polymeric matrix and will not be released through skin contact or under anticipated conditions of use. However, if the material is processed in such a manner (i.e., grinding) that large quantities of fine dusts are generated or the material is burned, a potential for exposure to dust containing carbon black may be created.

Dusts containing **Carbon black** can cause mechanical irritation of eyes, skin and upper respiratory tract. Chronic overexposures: Can cause chronic bronchitis and lung disease. IARC/NTP: Listed as possibly carcinogenic to humans by IARC (Group 2B)\*.

**Titanium dioxide** Can cause irritation of eyes and respiratory tract. Chronic overexposures: Can cause chronic bronchitis. IARC/NTP: Listed as possibly carcinogenic to humans by IARC (Group 2B)\*.

### Health Effects Associated with Individual Compounds Formed During Processing

No new/additional compounds are expected to be formed during processing.

### Acute Toxicity of Ingredients/Formed Compounds

#### A: Component Analysis - LD50/LC50

##### Carbon black (1333-86-4)

Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 g/kg

##### Titanium dioxide (13463-67-7)

Oral LD50 Rat: >10000 mg/kg

#### B: Formed Compound Toxicity - LD50s/LC50s

This material has no components listed.

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## Carcinogenicity of Ingredients

### A: Ingredient Carcinogenicity - IARC/NTP

Component	CAS	IARC 1	IARC 2A	IARC 2B	IARC 3	IARC 4	NTP K	NTP RA
Carbon black	1333-86-4	No	No	Yes	No	No	No	No
Titanium dioxide	13463-67-7	No	No	Yes	No	No	No	No

### B: Ingredient Carcinogenicity - ACGIH

#### Carbon black (1333-86-4)

ACGIH A4 - Not Classifiable as a Human Carcinogen

#### Titanium dioxide (13463-67-7)

ACGIH A4 - Not Classifiable as a Human Carcinogen

### C: Ingredient References

#### Carbon black (1333-86-4)

IARC Monograph 93 posted, Monograph 65 [1996]

#### Titanium dioxide (13463-67-7)

IARC Monograph 93 posted, Monograph 47 [1989]

## Carcinogenicity of Compounds Formed During Processing A:

### General Product Information

No new/additional compounds are expected to be formed during processing.

### Descriptions of IARC and NTP Classifications

**IARC 1:** The agent is carcinogenic to humans. There is sufficient evidence that a causal relationship existed between exposure to the agent and human cancer.

**IARC 2A:** The agent is probably carcinogenic to humans. Generally includes agents for which there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

**IARC 2B:** The agent is possibly carcinogenic to humans. Generally includes agents for which there is limited evidence in humans and less than sufficient evidence in experimental animals.

**IARC 3:** The agent is not classifiable as to its carcinogenicity to humans. Generally includes agents for which there is inadequate evidence in humans and inadequate or limited evidence in experimental animals.

**IARC 4:** The agent is probably not carcinogenic to humans. Generally includes agents for which there is evidence suggesting lack of carcinogenicity in humans and in experimental animals.

**NTP K:** Known to be a human carcinogen.

**NTP RA:** Reasonably anticipated to be a human carcinogen.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

**A: General Product Information:** No information available for product. **B:**

### Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Carbon black (1333-86-4)

24 Hr EC50 Daphnia magna: >5600 mg/L

**Environmental Fate:** No information available for product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

**Disposal Instructions:** Reuse or recycle material whenever possible. **US**

### EPA Waste Number & Descriptions

#### A: General Product Information

RCRA Status: Not federally regulated in the U.S. if disposed of "as is." Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

#### B: Component Waste Numbers

RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## \*\*\* Section 14 - Transportation Information \*\*\*

### Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
UN NA Number:	-			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
Packing Group:	-			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

### Notes:

- (1) When "Not regulated", enter the proper freight classification, "MSDS Number", and "Product Name" on the shipping paperwork.

Canadian Controlled Products Regulation PIN:	Not regulated
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## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

#### B: Component Analysis

None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### SARA 311/312 Physical and Health Hazard Categories:

Immediate (acute) Health Hazard: No

Delayed (chronic) Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure: No

Reactive: No

### State Regulations

#### A: General Product Information

Carbon black (airborne, unbound particles of respirable size) is on the California Prop 65 list. The carbon black in the colorant for this material is bound in a polymeric matrix. As supplied, the carbon black in this material does not meet the criteria of the Prop 65 list.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Carbon black	1333-86-4	Yes	No	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	No	Yes	Yes	Yes	Yes

### Other Regulations

A: General Product Information: No information available for product. B:

#### Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

#### C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Polyethylene terephthalate	25038-59-9	Yes	Yes	No	Yes	Yes
Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes	Yes	Yes

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

## \*\*\* Section 16 - Other Information \*\*\*

### MSDS History

Original: March 15, 2008

Revised:

### MSDS Status

Original issue by Reynolds Packaging Kama, Inc.

### Prepared By

Hazardous Materials Control Committee

Preparer: Dave Broocke: 804-281-2520

### Other Information

\* Guide to Occupational Exposure Values-2007, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

\* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).

\* NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, February 2004. \* Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.; edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.

\* expub, [www.expub.com](http://www.expub.com), Expert Publishing, LLC.

\* NFPA 654, Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries.

### Key-Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Act
IARC	International Agency for Research on Cancer
LC <sub>50</sub>	Lethal concentration (50 percent kill)
LC <sub>Lo</sub>	Lowest published lethal concentration
LD <sub>50</sub>	Lethal dose (50 percent kill)
LD <sub>Lo</sub>	Lowest published lethal dose
LFL	Lower Flammable Limit
MITI	Ministry of International Trade & Industry
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NORM	Naturally Occurring Radioactive Materials
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PSN	Proper Shipping Name
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
WHMIS	Workplace Hazardous Materials Information System
atm	atmosphere

# Material Safety Data Sheet

Product Name: APET SHEET CLEAR AND COLORS

ID: 1416

cm	centimeter
g, gm	gram
in	inch
kg	kilogram
lb	pound
m	meter
mg	milligram
ml, ML	milliliter
mm	millimeter
mppcf	million particles per cubic foot
n.o.s.	not otherwise specified
ppb	parts per billion
ppm	parts per million
psia	pounds per square inch absolute
u	micron
ug	microgram

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of MSDS # 1416