



Material Safety Data Sheet

Product Name: ALCOA KAMA POLYPROPYLENE SHEET

ID: 1323

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

Product Use: Food packaging

Alcoa Inc.
201 Isabella Street
Pittsburgh, PA 15212-5858

Phone: Health and Safety: 1-412-553-4649

Emergency Information:

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

Alcoa: 1-412-553-4001

Website:

For the most up-to-date MSDS, refer to the Alcoa website: www.alcoa.com

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
9003-07-0	Propylene polymers	>95
	Colorants	<5
1333-86-4	Carbon black	-
Proprietary	Proprietary colorants	-

*** Section 3 - Hazards Identification ***

Emergency Overview

Solid, sheet. Various colors. Odorless. Material will burn if ignited. Dust or fines dispersed in the air can be explosive. Dust can cause mechanical irritation of eyes, skin and respiratory tract. Contact with molten material can cause thermal burns.

Potential Health Effects

If dusts or fumes are generated by processing or if polymer is heated to melting:

Eyes

Can cause mechanical irritation.

Skin

Can cause mechanical irritation. Contact with molten material can cause thermal burns.

Ingestion

Can cause irritation and intestinal obstruction.

Inhalation

Can cause irritation of upper respiratory tract.

Health Effects of 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)*.

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*IARC Classification Definitions

Group 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.

Medical Conditions Aggravated By Exposure to the Product and/or Components

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

*** 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 burn.

First Aid: Ingestion

Dust from processing: Do **not** induce vomiting. Consult a physician immediately.

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. Avoid contact with sharp edges. Store away from heat, sparks, flames, oxidizers, and other incompatible substances.

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

Engineering Controls

Use with adequate ventilation to meet the limits listed in Section 8, Exposure Guidelines.

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Personal Protective Equipment

Respiratory Protection

Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations of airborne dust exceed the limits listed in Section 8, Exposure Guidelines. Suggested respiratory protection: N95

Eye Protection

Wear safety glasses/goggles to avoid eye contact.

Skin Protection

Wear appropriate gloves to avoid any skin injury.

Exposure Guidelines

A: General Product Information

No information available for product.

B: Component Exposure Limits

Carbon black (1333-86-4)

ACGIH 3.5 mg/m3 TWA

OSHA 3.5 mg/m3 TWA

Proprietary colorants (Proprietary)

OSHA 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

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

Physical State:	Solid, sheet	Appearance:	Various colors
Boiling Point:	Not applicable	Melting Point:	350-400°F (177-204°C)
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Solubility in Water:	Insoluble	Specific Gravity:	>1 g/cm3 (0.038 lb/in3)
pH Level:	Not applicable	Odor:	Odorless
Odor Threshold:	Not applicable	Octanol-Water Coefficient:	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. Dust or fines dispersed in the air can be explosive.

Hazardous Decomposition

Can generate the following when heated to decomposition or during combustion: Carbon monoxide, carbon dioxide, partially oxidized organics, aldehydes and acid smoke and fumes.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Health Effects of Ingredients

A: General Product Information

No information available for product.

B: Component Analysis - LD50/LC50

Carbon black (1333-86-4)

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

Proprietary colorants (Proprietary)

Oral LD50 Rat: >10 g/kg; Oral LD50 Mouse: >10 g/kg

Carcinogenicity

A: General Product Information

No information available for product.

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B: Component Carcinogenicity

Propylene polymers (9003-07-0)

IARC Supplement 7, 1987; Monograph 19, 1979

Carbon black (1333-86-4)

ACGIH A4 - Not Classifiable as a Human Carcinogen

IARC Monograph 65, 1996

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data was found for this product's components.

Environmental Fate

No information available for product.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

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.

*** Section 14 - Transportation Information ***

Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
UN NA Number:	-			
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 TDG Hazard Class & PIN: Not regulated

*** 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.

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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

Chemical(s) known to the State of California to cause cancer: Carbon black (airborne, unbound particles of respirable size)

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
Proprietary colorants	Proprietary	No	No	Yes	Yes	No	Yes

Other Regulations

A: General Product Information

No information available for product.

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Carbon black	1333-86-4	1 % (English Item 309, French Item 1271)

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Propylene polymers	9003-07-0	Yes	Yes	No	Yes	Yes
Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes
Proprietary colorants	Proprietary	Yes	Yes	Yes	Yes	Yes

*** Section 16 - Other Information ***

MSDS History

Original: February 22, 2005

MSDS Status

New MSDS

Prepared By

Hazardous Materials Control Committee

Preparer: Jon N. Peace, 412-553-2293

MSDS System Number

169384

Other Information

* Guide to Occupational Exposure Values-2004, 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).

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- * NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, June 1994.
- * 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.
- * Integrated Index(R), MICROMEDEX, Inc., 2004

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 ₅₀	Lethal concentration (50 percent kill)
LC _{Lo}	Lowest published lethal concentration
LD ₅₀	Lethal dose (50 percent kill)
LD _{Lo}	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
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
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 # 1323

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CAUTION

Hazards: Material will burn if ignited. Dust or fines dispersed in the air can be explosive.

Dust can cause mechanical irritation of eyes, skin and respiratory tract. Contact with molten material can cause thermal burns.

Precautions: Avoid generating dust. Use with adequate ventilation. Avoid contact with sharp edges.

Use appropriate personal protective equipment (safety glasses/gloves) to avoid injury. Use appropriate NIOSH approved respiratory protection (N95) if concentrations of airborne dust exceed permissible limits.

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

SKIN: Dust from processing: Wash 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 burn.

INGESTION: Dust from processing: Do **not** induce vomiting. Consult a physician immediately.

INHALATION: Dust from processing: Remove to fresh air. Check for clear airway, breathing, and presence of pulse. Provide CPR for persons without pulse or respirations. Consult a physician.

Read Alcoa Material Safety Data Sheet No. 1323 for more information about use and disposal.

Emergency Phone: (412) 553-4001.

INGREDIENTS:	CAS NUMBERS:
Polypropylene polymers	(9003-07-0)
Carbon black	(1333-86-4)
Proprietary colorants	(--)

Alcoa Inc.

201 Isabella Street, Pittsburgh, PA 15212-5858 USA

