



Material Safety Data Sheet

Product Name: ALCOA GUTTERSEAL - ALUMINUM PIGMENTED

ID: 304

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

Chemical Formula: Mixture
Product Use: Building construction
Other Designations: Catalog Code: GS

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

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

Manufacturer/Supplier
Alcoa Home Exteriors, Inc.
1590 Omega Drive
Pittsburgh, PA 15205

Phone: 412-249-6000 or 866-496-0370

Emergency Information:

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

Alcoa: 1-412-553-4001

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

CAS #	Component	Percent
78-93-3	Methyl ethyl ketone	45-55
Proprietary	Synthetic rubber	16-21
Proprietary	Alkylphenolic resin	11-15
7429-90-5	Aluminum	5-8
14807-96-6	Talc (containing no asbestos fibers)	4-8
7631-86-9	Silica, amorphous	1-2
8052-41-3	Aliphatic petroleum distillates	1-4
108-88-3	Toluene	1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Silicon dioxide (amorphous) (69012-64-2).

*** Section 3 - Hazards Identification ***

Emergency Overview

Paste. Aluminum colored. Solvent odor. Flammable. Solvent vapors may form explosive air/vapor mixtures at room temperature.

Direct contact can cause irritation of eyes and skin. Vapors can cause irritation of respiratory tract and central nervous system effects (nausea, dizziness and loss of coordination). Can be absorbed through the skin in toxic amounts.

Potential Health Effects

Eyes

Can cause irritation.

Skin

Prolonged or repeated contact can cause irritation. Can be absorbed through the skin in toxic amounts.

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Ingestion

Can cause irritation and central nervous system effects (nausea, dizziness and loss of coordination).

Inhalation

Can cause irritation of respiratory tract, central nervous system effects (nausea, dizziness and loss of coordination) and other health effects listed below.

Health Effects of Ingredients

Methyl ethyl ketone (MEK) Can cause irritation and corneal damage of eyes. Can cause irritation of mucous membranes, skin and upper respiratory tract. Skin contact: Can be absorbed through the skin in toxic amounts. Acute overexposures: Can cause headache, central nervous system effects (nausea, dizziness and loss of consciousness) and asphyxiation. Additional information: Studies with experimental animals have found embryo toxicity and fetal toxicity.

Toluene Can cause irritation of eyes, skin and upper respiratory tract. Skin contact: Can be absorbed through the skin. Acute overexposures: Can cause drowsiness (narcosis), respiratory arrest, abnormal heart rhythms (arrhythmia), coma and death. Chronic overexposures: Can cause liver damage, kidney damage, central nervous system damage, damage to the heart muscle (cardiomyopathy) and reproductive harm.

Solvents Can cause irritation of eyes, mucous membranes, skin and respiratory tract. Skin contact (prolonged or repeated): Can cause defatting of the skin and dermatitis. Acute overexposures: Can cause headaches, drowsiness (narcosis), liver damage, kidney damage and central nervous system effects (nausea, dizziness, loss of coordination and loss of consciousness). Chronic overexposures: Can cause loss of coordination, reduction in reaction times and central nervous system damage.

Silica, amorphous Acute overexposures: Can cause dryness of eyes, nose and upper respiratory tract.

Aluminum dust, fines and fumes Low health risk by inhalation. Generally considered to be biologically inert (milling, cutting, grinding).

Medical Conditions Aggravated By Exposure to the Product

Asthma, chronic lung disease, and skin rashes.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

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

First Aid: Skin

Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists.

First Aid: Ingestion

If swallowed, dilute by drinking large amounts of water. *Never give anything by mouth to a convulsing or unconscious person.* Do **not** induce vomiting. Consult a physician immediately.

First Aid: Inhalation

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 * * *

Flash Point: 16°F (-9°C) for MEK
Auto Ignition: 960°F (515°C) for MEK
UEL: 12%
LEL: 2%

Flammable/Combustible Properties

Flammable.

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Fire/Explosion

Solvent vapors may form explosive mixtures in air at room temperature. Vapors are heavier than air and may travel considerable distances along the ground to a source of ignition. Closed containers may burst or explode when exposed to extreme heat. Explosions can cause cans to "rocket" into non-burning areas which can spread the fire beyond the area of origin. Material and rags contaminated with solvents can be combustible.

Extinguishing Media

Use dry chemical, water spray (fog), alcohol foam or carbon dioxide extinguishing agents. Use water spray to minimize vapors and cool containers exposed to heat or flame. Move undamaged containers away from heat or flame, if possible.

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

Notify environmental personnel. Use adequate ventilation to reduce vapor concentration. Avoid all ignition sources around spill. Recover using non-sparking tools and place in a sealed container.

*** Section 7 - Handling and Storage ***

Handling/Storage

Avoid eye and skin contact. Avoid inhalation of vapors. Prohibit smoking. Avoid all ignition sources.

Store in tightly closed containers in a cool, dry area. Store away from heat, sparks, flames, oxidizers, and other incompatible substances. Keep containers closed when not in use. Containers should be bonded and grounded during pouring or transfer to prevent static discharge. Empty containers may contain residual product. Do not cut or weld on containers.

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

Engineering Controls

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

Personal Protective Equipment

Respiratory Protection

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

Organic vapor cartridge

Eye Protection

Wear safety glasses/goggles to avoid eye contact.

Skin Protection

Wear impervious gloves to avoid direct skin contact.

Exposure Guidelines

A: General Product Information

No information available for product.

B: Component Exposure Limits

Methyl ethyl ketone (78-93-3)

ACGIH 200 ppm TWA

ACGIH 300 ppm STEL

OSHA 200 ppm TWA; 590 mg/m3 TWA

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Aluminum (7429-90-5)

ACGIH 10 mg/m³ TWA (metal dust)

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

Talc (containing no asbestos fibers) (14807-96-6)

ACGIH 2 mg/m³ TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica)

OSHA 20 mppcf

Aliphatic petroleum distillates (8052-41-3)

ACGIH 100 ppm TWA

OSHA 500 ppm TWA; 2900 mg/m³ TWA

Silica, amorphous (7631-86-9)

ACGIH 2 mg/m³ TWA (respirable fraction) (related to Silica fume)

Toluene (108-88-3)

ACGIH 50 ppm TWA

ACGIH skin - potential for cutaneous absorption

OSHA 300 ppm Ceiling

OSHA 200 ppm TWA

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

Physical State: Paste	Appearance: Aluminum colored
Boiling Point: 175°F (79°C) for MEK	Freezing Point: Not determined
Melting Point: Not determined	Vapor Pressure: 71 mm Hg @ 20°C
Vapor Density: Not determined	Solubility in Water: Insoluble
Specific Gravity: See Density	Density: 59.3 lb./ft ³ (0.95 g/cm ³)
pH Level: Not applicable	Odor: Solvent
Odor Threshold: Not determined	Octanol-Water Coefficient: Not determined

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

Stability

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

Incompatibility

Strong bases. Strong oxidizers. Strong mineral acids.

Hazardous Decomposition

Carbon monoxide, carbon dioxide and partially oxidized hydrocarbons.

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

Methyl ethyl ketone (78-93-3)

Inhalation LC50 Rat: 23500 mg/m³/8H; Inhalation LC50 Mouse: 32 gm/m³/4H; Oral LD50 Rat: 2737 mg/kg; Oral LD50 Mouse: 4050 mg/kg; Dermal LD50 Rabbit: 6480 mg/kg

Toluene (108-88-3)

Inhalation LC50 Rat: 49 gm/m³/4H; Inhalation LC50 Mouse: 400 ppm/24H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 14100 uL/kg

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Carcinogenicity

A: General Product Information

No information available for product.

B: Component Carcinogenicity

Talc (containing no asbestos fibers) (14807-96-6)

ACGIH A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers);

A1 - Confirmed Human Carcinogen (containing asbestos fibers)

IARC Supplement 7, 1987; Monograph 42, 1987

Silica, amorphous (7631-86-9)

IARC Monograph 68, 1997

Toluene (108-88-3)

ACGIH A4 - Not Classifiable as a Human Carcinogen

IARC Monograph 71, 1999; Monograph 47, 1989

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

No information available for product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Methyl ethyl ketone (78-93-3)

96 Hr LC50 fathead minnow: 3220 mg/L (flow-through);96 Hr LC50 bluegill: 1690 mg/L

5 min EC50 Photobacterium phosphoreum: 3426 mg/L; 30 min EC50 Photobacterium phosphoreum: 3403 mg/L

48 Hr EC50 water flea: 520 mg/L

Toluene (108-88-3)

96 Hr LC50 fathead minnow (1 day old): 25 mg/L (flow-through);96 Hr LC50 rainbow trout: 24.0 mg/L (Static);96

Hr LC50 bluegill: 24.0 mg/L (Static);96 Hr LC50 fathead minnow: 31.7 mg/L (flow-through)

30 min EC50 Photobacterium phosphoreum: 19.7 mg/L

48 Hr EC50 water flea: 11.3 mg/L;48 Hr EC50 water flea: 310 mg/L

Environmental Fate

No information available for product.

* * * Section 13 - Disposal Considerations * * *

Disposal Instructions

Material generated by an Alcoa location should be disposed of at an Alcoa audited and approved waste management facility.

US EPA Waste Number & Descriptions

A: General Product Information

RCRA Hazardous Waste No.: D001 (if free liquids are present). Waste may exhibit ignitability if free liquids are present. If material is disposed as waste, it must be characterized under RCRA according to 40 CFR, Part 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.

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* * * Section 14 - Transportation Information * * *

Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:				
Proper Shipping Name:	Adhesives			
Hazard Class:	3			
UN NA Number:	UN 1133			
Packing Group:	II			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

Canadian TDG Hazard Class & PIN:	3, UN 1133
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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

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Methyl ethyl ketone (78-93-3)

SARA 313: 1.0 percent de minimis concentration

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Aluminum (7429-90-5)

SARA 313: 1.0 percent de minimis concentration (fume or dust only)

Toluene (108-88-3)

SARA 313: 1.0 percent de minimis concentration

CERCLA: 1000 lb final RQ; 454 kg final RQ

SARA 311/312 Physical and Health Hazard Categories:

Immediate (acute) Health Hazard: Yes

Delayed (chronic) Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure: No

Reactive: No

State Regulations

A: General Product Information

Chemical(s) known to the State of California to cause reproductive/developmental effects: Toluene

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
Methyl ethyl ketone	78-93-3	Yes	No	Yes	Yes	Yes	Yes
Aluminum	7429-90-5	Yes	No	Yes	Yes	Yes	Yes
Talc (containing no asbestos fibers)	14807-96-6	Yes	No	Yes	Yes	Yes	Yes
Aliphatic petroleum distillates	8052-41-3	Yes	No	Yes	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	No	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	No	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

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Other Regulations

A: General Product Information

Material meets the criteria for inclusion in WHMIS B2 and D2A.

B: Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Methyl ethyl ketone	78-93-3	1%; English Item 1045; French Item 1133
Aluminum	7429-90-5	1%; English Item 47; French Item 197
Aliphatic petroleum distillates	8052-41-3	1%; English Item 1468; French Item 1498
Silica, amorphous	7631-86-9	1%; English Item 1403; French Item 1488
Toluene	108-88-3	1%; English Item 1578; French Item 1622

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes
Synthetic rubber	Proprietary	Yes	Yes	No	Yes	Yes
Alkylphenolic resin	Proprietary	Yes	Yes	No	Yes	Yes
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	No
Talc (containing no asbestos fibers)	14807-96-6	Yes	Yes	Yes	Yes	No
Aliphatic petroleum distillates	8052-41-3	Yes	Yes	Yes	Yes	No
Silica, amorphous	7631-86-9	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes

*** Section 16 - Other Information ***

MSDS History

Original: May 25, 1982

Supersedes: October 2, 2002

Revised: August 27, 2003

MSDS Status

Changes to Section 1, manufacturer name and address

Prepared By

Hazardous Materials Control Committee

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

MSDS System Number

115796

Other Information

* Guide to Occupational Exposure Values-2003, 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, June 1994.

* Dangerous Properties of Industrial Materials, Sax, N. Irving, Van Nostrand Reinhold Co., Inc., 1984.

* 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., 2003

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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)
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 # 304

ALCOA GUTTERSEAL – ALUMINUM PIGMENTED



WARNING

Hazards: Can cause irritation of eyes, skin and respiratory tract.

Acute overexposures to methyl ethyl ketone (MEK) can cause headache and central nervous system effects (nausea, dizziness and loss of consciousness). MEK can be absorbed through the skin in toxic amounts.

Overexposure to toluene can cause drowsiness, abnormal heart rhythms, respiratory arrest and damage to the liver, kidneys, central nervous system and reproductive system. Toluene is absorbed through the skin.

WARNING: Toluene is a chemical known to the State of California to cause reproductive toxicity (Proposition 65).

WHMIS Class B2 and D2A.

Precautions: Use with adequate ventilation. Use appropriate personal protective equipment (safety glasses/gloves) to avoid injury. Use appropriate NIOSH approved respiratory protection (organic vapor cartridge) if concentrations exceed the permissible limits.

First Aid: EYES: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician. SKIN: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. INGESTION: If swallowed, dilute by drinking large amounts of water. *Never give anything by mouth to a convulsing or unconscious person.* Do NOT induce vomiting. Consult a physician immediately. INHALATION: 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

Fire Hazard: Flammable. Suitable extinguishing agents: CO₂, dry chemical, foam or water spray. Solvent vapors may form explosive mixtures in air at room temperature. Vapors are heavier than air and may travel considerable distances along the ground to a source of ignition. Closed containers may burst or explode when exposed to extreme heat. Material and rags contaminated with solvents can be combustible.

Read Alcoa Material Safety Data Sheet No. 304 for more information about use and disposal.

Emergency Phone: (412) 553-4001.

INGREDIENTS:	CAS No:
Methyl ethyl ketone	(78-93-3)
Synthetic rubber	(--)
Alkylphenolic resin	(--)
Aluminum	(7429-90-5)

INGREDIENTS:	CAS No:
Talc	(14807-96-6)
Stoddard solvent	(8052-41-3)
Silicon dioxide	(7631-86-9)
Toluene	(108-88-3)

Alcoa Home Exteriors, Inc.

1590 Omega Drive, Pittsburgh, PA 15205 USA

8/03 304



AVERTISSEMENT

Dangers: Peut causer une irritation de yeux, peau et appareil respiratoire.

La surexposition aiguës à méthyléthylcétone peut causer céphalée et effets sur le système nerveux central (nausée, étourdissement et perte de conscience). Peut être absorbé par la peau en quantité nuisible.

La surexposition au toluène peut causer la somnolence, des fréquences cardiaques anormales, l'arrêt respiratoire et des lésions au foie, aux reins, au système nerveux central et à l'appareil reproducteur. Le toluène s'absorbe par la peau.

WHMIS Classe B2 et D2A.

Précautions: Utiliser avec une aération adéquate. Utiliser les équipements de protection personnelle nécessaires à éviter la blessure (lunettes de sécurité/gants). Utiliser un appareil respiratoire approprié si les concentrations dépassent les limites admissibles.

Premiers soins: YEUX: Rincer les yeux au moins 15 minutes avec beaucoup d'eau. Consulter un médecin. PEAU: Laver au moins 15 minutes avec de l'eau et du savon. Consulter un médecin si l'irritation persiste. INHALATION: Emmener à l'air frais. Contrôler si les voies respiratoires sont dégagées, la respiration et la pulsation. Tenter une réanimation cardiopulmonaire avec les personnes sans pulsation ou respiration. Consulter un médecin. INGESTION: Ne pas provoquer le vomissement. Ne jamais donner quoi que ce soit oralement à une personne inconsciente ou ayant des convulsions. Si avalé, diluer alors en buvant une grande quantité d'eau. Consulter immédiatement un médecin.

Danger d'incendie: Inflammable. Moyens d'extinction: CO₂, poudre d'extinction, mousse ou eau pulvérisée. Les vapeurs de solvant peuvent former des mélanges explosifs dans l'air à température ambiante. Les vapeurs sont plus lourdes que l'air et peuvent parcourir de longues distances à proximité du sol jusqu'à un point d'inflammation. Les conteneurs fermés peuvent exploser s'ils sont exposés à des températures extrêmes. Les matières et chiffons contaminés par des solvants peuvent être combustibles.

Pour de plus amples informations sur l'utilisation et la mise rebut du produit, lire la fiche de données de sécurité des matières d'Alcoa No. 304.

No. de téléphone d'urgence: (412) 553-4001.



ALCOA