

Material Safety Data Sheet

Product Name: ALUMINUM PIGMENTED GUTTERSEAL

ID: 1384

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

Chemical Formula: Mixture

Product Use: Building construction

Other Designations: Catalog Code: GS

Ply Gem Industries, Inc.
2600 Grand Blvd., Suite 900, Kansas City, MO 64108

Phone: 1-816-426-8200

Manufacturer/Supplier

Ply Gem Industries, Inc.
2405 Campbell Rd, Sidney, OH 45365

Phone: 1-937-498-6135 or 1-937-497-7008
Health and Safety: 1-937-498-6117

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

*** Section 2 - 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 eyes and respiratory tract and can cause central nervous system effects (nausea, dizziness and loss of coordination).

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.

Eyes

Direct contact can cause irritation and corneal damage. Vapors can cause irritation.

Skin

Prolonged or repeated contact with the skin can cause irritation and/or dermatitis.

Ingestion

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

Inhalation

Vapors can cause irritation of respiratory tract and central nervous system effects (nausea, dizziness and loss of coordination). Prolonged or repeated exposure can cause liver damage, and kidney damage.

Carcinogenicity and Reproductive Hazard

Does not present any cancer or reproductive hazards.

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

Asthma, chronic lung disease, and skin rashes.

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

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

CAS #	Component	Percent
79-20-9	Methyl Acetate	64-41
9003-18-3	Synthetic rubber	17-23
67-64-1	Acetone	25-35
N/A	Phenolic resin	15-20
540-88-5	tert-Butyl Acetate	16-24
1317-65-3	Ground Limestone	6-9
7429-90-5	Aluminum	3-4
14807-96-6	Talc (containing no asbestos fibers)	2-4
8042-47-5	Mineral Oil	1-2

*** 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 ***

Flammable/Combustible Properties

Flammable.

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 containers 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 fog, alcohol-resistant 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.

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*** 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. 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 and other appropriate clothing to avoid repeated or prolonged skin contact.

Exposure Guidelines

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

B: Component Exposure Limits

Acetone (67-64-1)

ACGIH 500 ppm TWA
ACGIH 750 ppm STEL
OSHA 1000 ppm TWA; 2400 mg/m³ TWA

Methyl Acetate (79-20-9)

ACGIH 200 ppm TWA
ACGIH 250 ppm STEL
OSHA 200 ppm TWA; 610 mg/m³ TWA

tert-Butyl Acetate (540-88-5)

ACGIH 200 ppm TWA
OSHA 200 ppm TWA; 950 mg/m³ TWA

Ground Limestone (1317-65-3) (as Calcium Carbonate [471-34-1])

ACGIH 10 mg/m³
OSHA 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

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 TWA (if 1% quartz or more, use quartz limit)

Mineral Oil (8042-47-5) (as Oil Mist)

ACGIH 5 mg/m³ TWA
ACGIH 10 mg/m³ STEL
OSHA 5 mg/m³ TWA

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

Physical State:	Paste	Appearance:	Silver
Boiling Point:	131-136°F (56°C)	Melting Point:	Not determined
Vapor Pressure:	185 mm Hg @ 20°C	Vapor Density:	Heavier than air
Solubility in Water:	Partially miscible	Density:	62.1 lb./ft ³ (1.0 g/cm ³)
pH Level:	Not applicable	Odor:	Solvent
Odor Threshold:	Not determined	Octanol-Water Coefficient:	Not determined
Flash Point:	0°F (-17°C) for Acetone	Auto Ignition:	849°F (454°C) for Acetone
UFL:	16%	LFL:	3.1%
Volatiles:	53-61% vol (50-58% weight)	VOC Content:	<0.17 lbs/gal (<20 g/L)

*** 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 Associated with Individual Ingredients

Acetone Can cause irritation and corneal damage of eyes. Can cause irritation of mucous membranes, skin and upper respiratory tract. Acute overexposures: Can cause headache, central nervous system effects (nausea, dizziness and loss of consciousness) and asphyxiation.

Methyl Acetate Can cause irritation of eyes, mucous membranes, skin and upper respiratory tract. Acute overexposures: Can cause headache, central nervous system effects (nausea, dizziness and loss of consciousness) and asphyxiation. Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause optic nerve damage as well as blood, kidney, lung and central nervous system effects.

tert-Butyl Acetate Can cause irritation of eyes, mucous membranes, skin and upper respiratory tract. Acute overexposures: Can cause headache, central nervous system effects (nausea, dizziness and loss of consciousness) and asphyxiation. Chronic: Prolonged or repeated skin contact may cause dermatitis. Chronic exposure may cause blood, kidney, lung and central nervous system effects.

Talc May cause mechanical eye irritation. May cause skin and respiratory irritation. Chronic: Prolonged or repeated exposure by inhalation may cause Talc Pneumoconiosis (Talcosis) which affects the lungs.

Aluminum dust, fines and fumes Low health risk by inhalation. Generally considered to be biologically inert.

Acute Toxicity of Ingredients/Formed Compounds

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

B: Component Analysis - LD50/LC50

Acetone (67-64-1)

Inhalation LC50 Rat: 100 mg/m³; Oral LD50 Rat: 5800 mg/kg

Methyl Acetate (79-20-9)

Oral LD50 Rabbit: > 5 gm/kg; Skin LD50 Rabbit: > 5 gm/kg.

tert-Butyl Acetate (540-88-5)

Inhalation LC50 Rat: ≥2230 mg/m³/4H; Oral LD50 Rat: 4100 mg/kg; Skin LD50 Rabbit: ≥2 gm/kg;

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C: Formed Compound Toxicity - LD50s/LC50s

This material has no components listed.

Carcinogenicity of Ingredients

A: Ingredient Carcinogenicity - IARC/NTP

Component	CAS	IARC 1	IARC 2A	IARC 2B	IARC 3	IARC 4	NTP K	NTP RA
Talc (containing no asbestos fibers)	14807-96-6	No	No	No	Yes	No	No	No

B: Ingredient Carcinogenicity - ACGIH

Acetone (67-64-1)

ACGIH A4 - Not Classifiable as a Human Carcinogen

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

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

C: Ingredient References

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

IARC Monograph 93 posted (inhaled), Supplement 7 [1987], Monograph 42 [1987]

Carcinogenicity of Compounds 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

Acetone (67-64-1)

96 Hr LC50 Rainbow trout: 5540 mg/l; 96 Hr LC50 Bluegill/Sunfish: 8300 mg/l

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

96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]

Environmental Fate

No information available for product.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

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.

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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:				
UN NA Number:	UN 1133			
Proper Shipping Name:	Adhesives			
Hazard Class:	3			
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).

Acetone (67-64-1)

CERCLA: 5000 lb final RQ; 2268 kg final RQ

tert-Butyl Acetate (540-88-5)

CERCLA: 5000 lb final RQ; 2268 kg final RQ

Aluminum (7429-90-5)

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

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: None

B: Component Analysis - State

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

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Component	CAS #	CA	FL	MA	MN	NJ	PA
Acetone	67-64-1	Yes	No	Yes	Yes	Yes	Yes
Methyl Acetate	79-20-9	Yes	No	Yes	Yes	No	Yes
tert-Butyl Acetate	540-88-5	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
Ground Limestone	1317-65-3	No	No	Yes	Yes	No	Yes
Mineral Oil	8042-47-5	Yes	No	Yes	Yes	No	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): None.

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
Acetone	67-64-1	1 %
Methyl Acetate	79-20-9	1 %
tert-Butyl Acetate	540-88-5	1 %
Aluminum	7429-90-5	1 %

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Acetone	78-93-3	Yes	Yes	Yes	Yes	Yes
Methyl Acetate	79-20-9	Yes	Yes	Yes	Yes	Yes
tert-Butyl Acetate	540-88-5	Yes	Yes	Yes	Yes	Yes
Synthetic rubber	9003-18-3	Yes	Yes	No	Yes	Yes
Phenolic resin	N/A	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
Mineral Oil	8042-47-5	Yes	Yes	Yes	Yes	
Ground Limestone	1317-65-3	Yes	Yes	Yes	Yes	Yes

* * * Section 16 - Other Information * * *

MSDS History

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MSDS Status

01/09/09: Initial Creation
 02/16/09: Changes to sections 2,3,8,9,11,12 and 15.
 07/10/09: Changes to sections 2,3,8,9,11,12 and 15.
 10/05/09: Changes to section 1

Prepared By

Preparer: Jesse D. Aiken, 937-498-6117

Other Information

- * Guide to Occupational Exposure Values-2006, 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, Expert Publishing, LLC.

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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)
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
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
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 # 1384