

Material Safety Data Sheet

Product Name: WHITE GUTTERSEAL

ID: 305

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

Chemical Formula: Mixture

Product Use: Building construction

Other Designations: Catalog Code: GSW

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. White. 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). Can be absorbed through the skin

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

Can cause irritation.

Skin

Prolonged or repeated contact with the skin can cause irritation. Can be absorbed through the skin

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).

Carcinogenicity and Reproductive Hazard

Does not present any cancer hazards. Can present a reproductive hazard (Toluene).

Medical Conditions Aggravated By Exposure to Product, Components or Compounds Formed During 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
108-88-3	Toluene	39-40
Proprietary	Tackifier resin	18-21
Proprietary	Olefin polymer	12-15
Proprietary	Synthetic rubber	10-13
13463-67-7	Titanium dioxide	8-10
Proprietary	Vinyl polymer	4-7

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*** 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 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-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.

*** 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

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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

Toluene (108-88-3)

ACGIH 50 ppm TWA

ACGIH Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA 300 ppm Ceiling

OSHA 200 ppm TWA

Titanium dioxide (13463-67-7)

ACGIH 10 mg/m³ TWA

OSHA 15 mg/m³ TWA (total dust)

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

Physical State: Paste	Appearance: White
Boiling Point: 232°F (111°C)	Melting Point: Not determined
Vapor Pressure: 22 mm Hg @ 20°C (estimated)	Vapor Density: Not determined
Solubility in Water: Insoluble	Density: 60.5 lb./ft ³ (0.97 g/cm ³)
pH Level: Not applicable	Odor: Solvent
Odor Threshold: Not determined	Octanol-Water Coefficient: Not determined
Flash Point 40°F (4°C) for Toluene	Auto Ignition 896°F (480°C) for Toluene
UFL 7%	LFL 1.2%

*** 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

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.

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)*.

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Acute Toxicity of Ingredients/Formed Compounds

A: General Product Information

No information available for product.

B: Component Analysis - LD50/LC50

Toluene (108-88-3)

Inhalation LC50 Rat: 12.5 mg/L/4H; Inhalation LC50 Rat: >26700 ppm/1H; Oral LD50 Rat: 636 mg/kg; Dermal LD50 Rabbit: 8390 mg/kg

Titanium dioxide (13463-67-7)

Oral LD50 Rat: >10000 mg/kg

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
Toluene	108-88-3	No	No	No	Yes	No	No	No
Titanium dioxide	13463-67-7	No	No	Yes	No	No	No	No

B: Ingredient Carcinogenicity - ACGIH

Toluene (108-88-3)

ACGIH A4 - Not Classifiable as a Human Carcinogen

Titanium dioxide (13463-67-7)

ACGIH A4 - Not Classifiable as a Human Carcinogen

C: Ingredient References

Toluene (108-88-3)

IARC Monograph 71 [1999], Monograph 47 [1989]

Titanium dioxide (13463-67-7)

IARC Monograph 93 posted, Monograph 47 [1989]

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

Toluene (108-88-3)

96 Hr LC50 Pimephales promelas: 25 mg/L [flow-through] (1 day old); 96 Hr LC50 Oncorhynchus mykiss: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 24.0 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static]

96 Hr EC50 Selenastrum capricornutum: >433 mg/L

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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; 48 Hr EC50 Daphnia magna: 11.3 mg/L

Environmental Fate: No information available for product.

*** Section 13 - Disposal Considerations ***

Disposal Instructions

Reuse or recycle material whenever possible. 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.

*** 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).

Toluene (108-88-3)

SARA 313: 1.0 % 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

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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
Toluene	108-88-3	Yes	No	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	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.

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
Toluene	108-88-3	1 %

C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Yes	Yes	Yes	Yes

* * * Section 16 - Other Information * * *

MSDS History

Original: May 25, 1982

Supersedes: December 18, 2007

Revised: January 29, 2010

MSDS Status

01/29/10: Changes to Section 1, manufacturer name, address, phone numbers

12/18/07: Changes to Section 1, manufacturer name, address, phone numbers

04/14/07: Changes to Section 1, manufacturer name, address, phone numbers

09/26/06: Reviewed on a periodic basis in accordance with Alcoa policy.

Changes in Sections 2, 3, 5, 8, 9, 11, 12 and 15.

08/27/03: Change to Sections 1, manufacturer address

Prepared By

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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.

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

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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 # 305