



Section 1 - Chemical Product and Company Information

Product Name: Gemcoat-WB Mold-Resistant Coating Additive Product Code: 86T-128
Manufactured by: IN CASE OF EMERGENCY:

Chemcoat Inc.
P.O. Box 188
2790 Canfield Lane
Montoursville, PA 17754

Chem-tel:
800-255-3924

General information:
800-326-9471

Product Use: For Industrial Use

Section 2 - Hazards Identification

GHS Ratings:

Skin corrosion/irritation	3	Reversible adverse effects in dermal tissue, Draize score: $\geq 1.5 < 2.3$
Serious eye damage/eye irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5

GHS Hazards

H316	Causes mild skin irritation
H318	Causes serious eye damage

GHS Precautions

P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332+P313	If skin irritation occurs: Get medical advice/attention

Signal Word: Danger



Section 3 - Composition / Information on Ingredients

Note: this product may contain pigments such as mineral silicates, silicone dioxide or titanium dioxide, which are not hazardous in wet paint. They may reach hazardous levels in dusts generated from sanding or grinding of dried paint.

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	70.00% - 80.00%
Proprietary Ingredient 1	Trade Secret #1	5.00% - 10.00%
Titanium Dioxide ⁽¹⁾	13463-67-7	1.00% - 5.00%
Docusate Sodium	577-11-7	1.00% - 5.00%
Silver Chloride	7783-90-6	1.00% - 5.00%
Ethyl Alcohol	64-17-5	1.00% - 5.00%

(1) IARC Monographs on the Evaluation of Carcinogenic Risks to Humans Volume 93 page 272: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints."

Section 4 - First Aid Measures

INHALATION - Move person to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention!

EYE CONTACT - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

SKIN CONTACT - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

INGESTION - Do not induce vomiting. This may cause chemical pneumonitis and pulmonary edema. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. Seek immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 100 C (212 F)

LEL: 3.0%

UEL: 19.0%

Extinguishing Media: Use carbon dioxide (CO₂), foam, dry chemical, or water spray/water fog extinguishing system.

Unusual Fire and Explosion Hazards: Vapors may travel considerable distance by air and become ignited by ignition sources.

Hazardous Combustion Products: Oxides of carbon

Fire Fighting Instructions: Full protective equipment including self contained breathing apparatus should be used.

Fire Equipment: Water spray may not be effective, use fog nozzles

Section 6 - Accidental Release Measures

Spill and Leak Procedure: Eliminate all ignition sources. Ventilate the area. Use appropriate respirator and protective clothing.

Small Spills: Contain spill areas with dikes. Recover spilled material into containers. Absorb remainder with absorbent material.

Large Spills: If small spill measures do not contain the spill, notify local authorities and/or the fire department.

Section 7 - Handling and Storage

Handling: Avoid prolonged breathing or contact with product. Keep containers closed when not in use. Do not cut, drill, grind, or weld near containers even when empty. Use non-sparking tools when working around this material.

Storage Requirements: Protect from freezing. Keep containers closed when not in use. Keep away from excessive heat, open flames, or sparks.

Regulatory Requirements: Consult national, state and local environmental laws.

Section 8 - Exposure Controls / Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
Proprietary Ingredient 1 Trade Secret #1	Not established	Not established	Not Established
Titanium Dioxide 13463-67-7	The OSHA TWA is 10 mg/m3.	The ACGIH TLV is: 10 mg/m3 (total dust containing no asbestos).	NIOSH REL = potential occupational carcinogen. The NIOSH IDLH = (Ca) 5,000 mg/m3. HSE TWA for titanium dioxide is 10 mg/m3 (total dust) and 5 mg/m3 (respirable fraction).
Docusate Sodium 577-11-7	Contains no substances with occupational exposure limits	Not Established	Not Established
Silver Chloride 7783-90-6	Contains no substances with occupational exposure limits	Not Established	Not Established
Ethyl Alcohol 64-17-5	The OSHA PEL, the DFG value, the HSE value and the recommended ACGIH TWA value is 1,000 ppm (1,900 mg/m3).	The OSHA PEL, the DFG value, the HSE value and the recommended ACGIH TWA value is 1,000 ppm (1,900 mg/m3).	There is not tentative STEL value. The former USSR-UNEP/IRPTC project has set a MAC in workplace air of 1,000 mg/m3 and a MAC in ambient air of residential areas of 5.0 mg/m3 on either a momentary or a daily average basis. Several states have set guidelines or standards for ethanol in ambient air ranging from 0.26 mg/m3 (Massachusetts) to 16.0 mg/m3 (Virginia) to 19.0 mg/m3 (North Dakota) to 38.0 mg/m3 (Connecticut and South Dakota) to 45.238 mg/m3 (Nevada).

Ventilation: Exhaust as required to keep exposure below Threshold Limit Values

Protective Gear: If ventilation equipment cannot control exposures below the TLV's, wear a properly fitted organic/particulate NIOSH/MSHA approved respirator. Wear rubber or neoprene protective gloves for repeated or prolonged skin contact. Wear safety glasses or face shield for eye protection.

Section 9 - Physical and Chemical Properties

Physical State Liquid Vapor Pressure: 0.36 mmHg Density: 1.02 Solvent based product N/A freezing point Boiling range: 78 - 3000°C Evaporation rate: Slower than ether Lbs VOC/Gallon Solids 2.22 g/l VOC Less Exempt Less 208.75 Water % wt exempt 0.00 % Weight Solids 19.70 lbs/gal VOC as supplied 0.41	Odor: paint Vapor Density: 5.9 Formula Lb / Gal 8.46 Water based product 32 F freezing point Flash point: 212°F,100°C Explosive Limits: 3% - 19% Lbs/Gal VOC Less 1.74 H2O+Exempt Percent Weight Water 75.46 % Organic Solvent 4.83 % Volume Solids 18.32
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Section 10 - Stability and Reactivity

Stability:

STABLE

Incompatibility:

 Strong acids or bases.

Strong oxidizing agents
Strong oxidizing agents, acids, and alkali/base/caustic solutions
High temperatures or localized heat sources
Strong oxidizers

Hazardous Decomposition:

 Oxides of carbon and nitrogen.

Oxides of carbon
Fluorine containing gases can be produced
Chlorine containing gases can be produced
Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 40mg/L

Component Toxicity

Routes of Entry:

Inhalation Skin Contact Eye Contact Ingestion

Exposure to this material may affect the following organs:

Blood Eyes Liver Central Nervous System Reproductive System Skin

Effects of Overexposure

Short Term Exposure	Eye or skin contact with ammonia can cause irritation, burns, frostbite (anhydrous), and permanent damage. Irritates the respiratory tract causing coughing, wheezing and shortness of breath. Higher exposure can cause pulmonary edema, a medical emergency, that can be delayed for several hours and is life threatening. Exposure can cause headache, loss of sense of smell, nausea, and vomiting. Inhalation can cause irritation of the eyes and respiratory tract, causing cough and phlegm. Irritates the skin. Inhalation: Levels of 5,000 - 10,000 ppm may result in irritation of mouth, nose and throat and coughing, leading to sleep and stupor.
Long Term Exposure	Repeated exposure can cause chronic eye, nose, and throat irritation. Repeated lung irritation can result in bronchitis with coughing, shortness of breath, and phlegm. Levels of 170 ppm of ammonia vapor has caused mild changes in the spleens, kidneys and livers of guinea pigs. High exposures may cause lung irritation; bronchitis may develop. Continued exposure may result in emphysema, lung scarring, lung fibrosis, and tumors. A potential occupational carcinogen. Prolonged inhalation of concentrations above 5,000 ppm may produce symptoms listed under inhalation and the additional symptoms of headache, dizziness, tremor and fatigue. Additives in denatured alcohol may result in other more severe symptoms. Alcohol has been linked to birth defects in humans. Ethyl alcohol may cause mutations. Repeated exposure (including alcoholic beverages) may cause spontaneous abortions, as well as birth defects and other developmental problems, including "fetal alcohol syndrome." Chronic use of ethanol may cause cirrhosis of the liver.
Eye Contact	causes eye burns Causes serious eye damage
Inhalation	Moderately irritating
Skin Contact	Not expected to be a skin irritation hazard. Suspect skin sensitization hazard Suspect slight skin absorption hazard causes skin irritation
Ingestion	Suspect slight ingestion hazard

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA, or ACGIH.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
13463-67-7	Titanium Dioxide	1% - 5%	Titanium Dioxide: Titanium dioxide is listed as a Group 2B "Possible carcinogenic to humans" by IARC.

Section 12 - Ecological Information

Ecotoxicity: Protect environment from spills and releases.

Component Ecotoxicity

Proprietary Ingredient 1 48 Hr EC50 Daphnia: 3.68 mg/L

Section 13 - Disposal Considerations

Disposal: As the US EPA, state, local or other regulatory agency may have jurisdiction over the disposal of your facility's waste, it is incumbent on you, to learn and satisfy all the regulations which effect you. Dispose of in accordance to government regulations. Destroy by liquid incineration by certified environmental service group.

Section 14 - Transport Information

Protect from freezing.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Paint	Not req*		Not reg**
	*- Not required			
	** - Not regulated			

Section 15 - Regulatory Information

Additional regulatory listings where applicable

California Prop. 65 Components

None

Hazardous Air Pollutants

None

Chemicals meeting reporting requirements of OSHA

13463-67-7 Titanium Dioxide 1 - 5%

SARA Section 312/311 Reporting

13463-67-7 Titanium Dioxide 1 - 5%

SARA Section 313 Emission Reporting

577-11-7 Docusate Sodium 1 - 5%

7783-90-6 Silver Chloride 1 - 5%

29911-28-2 Dipropylene Glycol Butoxy Ether 0.1 - 1.0%

7664-41-7 Ammonia 313 PPM

Country	Regulation	All Components Listed
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Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

577-11-7 Docusate Sodium 1.0 - 5%

Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

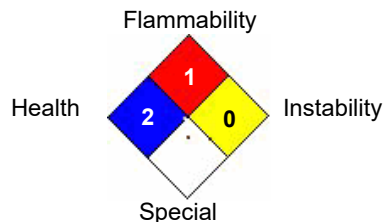
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision

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