

MATERIAL SAFETY DATA SHEET
MATTHEWS PAINT COMPANY

SECTION 1 - CHEMICAL, PRODUCT, AND COMPANY INFORMATION

PRODUCT CODE/IDENTITY: 287195SP
REVISION DATE: 01/05/99 (000) 0808
CUSTOMER PART #/NAME:
PRODUCT TRADE NAME: FROST WHITE
CHEMICAL FAMILY: WETTED MICA
EMERGENCY MEDICAL/SPILL INFO: (800) 424-9300 CHEMTREC (U.S.)
91-800-00-214 (MEXICO)
(514) 645-1320 (CANADA)
TECHNICAL INFORMATION: (800) 323-6593
PRODUCT SAFETY/MSDS INFORMATION: 8201 - 100TH STREET
PLEASANT PRAIRIE, WISCONSIN 53158
(262) 947-0700
DATE OF MSDS PREPARATION: 10/21/99

PRIMARY HAZARD WARNING

Harmful if swallowed. May cause slight skin irritation. Causes eye irritation. Dust may be harmful if inhaled. Dust irritates eyes, nose and throat.

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), THE SUPPLIER NOTIFICATION REQUIREMENTS OF SARA TITLE III, SECTION 313, AND OTHER APPLICABLE RIGHT-TO-KNOW REGULATIONS.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

REF	HAZARDOUS INGREDIENTS	PERCENT	CAS NUMBER	CARCINOGEN*
01	MICA	60- <70	12001-26-2	
02	TITANIUM DIOXIDE	20- <30	1317-80-2	
03	TIN OXIDE	1 - <5	18282-10-5	
04	PETROLEUM DISTILLATES	10- <20	64741-65-7	

* Carcinogens: O = OSHA; A = ACGIH; N = NTP; I = IARC

SARA TITLE III & CERCLA CLASSIFICATIONS

REF	SARA 102 RQ (LBS)	SARA 302 TPQ (LBS)	SARA 313	SARA 311/312				
				AC	CH	FL	PR	RE
01	NOT ESTAB	NOT ESTAB	N	N	N	N	N	N
02	NOT ESTAB	NOT ESTAB	N	N	N	N	N	N
03	NOT ESTAB	NOT ESTAB	N	Y	N	N	N	N
04	NOT ESTAB	NOT ESTAB	N	Y	N	Y	N	N

SARA 311/312 CATEGORIES FOR THIS PRODUCT: ACUTE = Y, CHRONIC = N, FLAMMABILITY = N, PRESSURE = N, REACTIVITY = N

OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS:

REF	ACGIH		U.S. OSHA	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL
01	R- 3 mg/m ³	NOT ESTAB.	R- 3 mg/m ³	NOT ESTAB.
02	10 MG/M ³	NOT ESTAB.	15 MG/M ³	NOT ESTAB.
03	2 mg/m ³	NOT ESTAB.	2 mg/m ³	NOT ESTAB.
04	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.

IC- Ceiling Limit; S- Potential Skin Absorption; R- Respirable Dust [NOT ESTAB. = NOT ESTABLISHED = NOT APPLICABLE]

PRODUCT STATUS RELATIVE TO THE U.S. EPA TOXIC SUBSTANCES CONTROL ACT

All chemical substances in this product are listed on the U.S. TSCA Inventory or are otherwise exempt from TSCA Inventory reporting requirements.

SECTION 3 - HAZARDS IDENTIFICATION**EFFECTS OF OVEREXPOSURE FROM:**

► **INGESTION:** Harmful if swallowed.

► **EYE CONTACT:** Causes eye irritation.

► **SKIN CONTACT:** May cause slight skin irritation.

► **INHALATION:** Dust may be harmful if inhaled. Dust irritates eyes, nose and throat.

► **CHRONIC OVEREXPOSURE:** Avoid long-term and repeated contact. This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure. Potential for inhalation of titanium dioxide dusts from coatings is very limited. Since overexposures are not expected, there is no significant hazard for man.

► **SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

► **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Not applicable.

SECTION 4 - FIRST AID MEASURES

► **INGESTION:** If swallowed, do not induce vomiting. Gently wipe out inside mouth to remove any residual material.

► **EYE CONTACT:** In case of eye contact, remove contact lenses and flush eyes immediately with a gentle stream of luke warm water for at least 15 minutes.

► **SKIN CONTACT:** In case of skin contact, flush immediately with plenty of water for at least 15 minutes followed by washing with soap and water.

► **INHALATION:** If affected by inhalation of dust, remove to fresh air. Apply artificial respiration and other support measures as required.

► **OTHER:** If ingestion, any type of overexposure or symptoms of overexposure occur during or following the use of this product, contact a poison control center, emergency room or physician immediately; have Material Safety Data Sheet information available.

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SECTION 5 - FIRE FIGHTING MEASURES

- ▶ **FLASHPOINT:** 201 Degrees F (93 Degrees C) (PENSKY-MARTENS CLOSED CUP)
- ▶ **FLAMMABLE LIMITS:** Lower explosion limit (LEL): 1.0
- ▶ **Upper explosion limit (UEL):** Not available
- ▶ **EXTINGUISHING MEDIA:** Use extinguishers appropriate for surrounding fire.
- ▶ **UNUSUAL FIRE AND EXPLOSION HAZARDS:** Dust can form explosive mixture in air.
- ▶ **SPECIAL FIRE FIGHTING PROCEDURES:** Water spray may be ineffective. Water spray may be used to cool closed containers that are exposed to extreme heat. If water is used, fog nozzles are preferable. Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- ▶ **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Return material to container.
- ▶ **WASTE DISPOSAL METHOD:** Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

SECTION 7 - HANDLING AND STORAGE

- ▶ **HANDLING AND STORAGE PRECAUTIONS:** For better shelf life, do not store above 80 degrees Fahrenheit (26 degrees C.).
- ▶ **OTHER PRECAUTIONS:** Store in cool dry place.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT FOR:

- ▶ **EYE PROTECTION:** Wear sufficient eye protection to prevent contact with powdered materials.
- ▶ **SKIN PROTECTION:** This coating does not pose a skin absorption hazard. Gloves selection should be based on the work task to prevent skin irritation.
- ▶ **RESPIRATORY PROTECTION:** Use an appropriate NIOSH-approved particulate filter respirator. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used.
- ▶ **OTHER EQUIPMENT:** Clean contaminated clothing and shoes.

VENTILATION REQUIREMENTS: Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients in Section 2 below the lowest suggested exposure limit, and LEL below stated limit, as appropriate.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

BOILING RANGE: 354- 399Degrees F	SOLUBILITY IN WATER: .0 %
VAPOR PRESSURE: 1.0 mmHg	WEIGHT/GALLON (LBS): 21.58 (U.S.)
VAPOR DENSITY: Not applicable	pH: Not applicable
% VOLATILE/VOLUME: 34.160	% SOLIDS BY WEIGHT: 90.00
SPECIFIC GRAVITY: 2.590	EVAPORATION RATE(BuOAc = 100): 10
ODOR/APPEARANCE: Free flowing powder with minimal odor.	

SECTION 10 - STABILITY AND REACTIVITY

- ▶ This product is normally stable and will not undergo hazardous reactions.
- ▶ **INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):** High concentrations of airborne dust may ignite explosively. All ignition sources should be eliminated when this product is dispersed in air. Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.
- ▶ **HAZARDOUS DECOMPOSITION PRODUCTS:** May produce the following hazardous decomposition products when exposed to extreme heat: oxides of aluminum ; carbon monoxide ; carbon dioxide ; Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.
- ▶ Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) Ratings:

HMIS Rating	NFPA Rating
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HEALTH 2	HEALTH 2
FLAMMABILITY 1(a)	FLAMMABILITY 1(a)
REACTIVITY 0	INSTABILITY 0

Rating System: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe, * = Chronic Effects.

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(a) The flammability rating printed above applies to this product during normal transportation and storage. However, theoretically, this product can form explosive mixtures at high concentrations of airborne dust. Per NFPA 704 (1996 edition) criteria, such products would be assigned a "flammability" hazard rating of "3" if they are "readily dispersed in air".

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

THIS IS THE END OF THE MSDS FOR: 287195SP (00133336.003287195SP 10/21/99)