

MATERIAL SAFETY DATA SHEET  
MATTHEWS PAINT COMPANY

**SECTION 1 - CHEMICAL, PRODUCT, AND COMPANY INFORMATION**

PRODUCT CODE/IDENTITY: 274229SP  
REVISION DATE: 01/05/99 (000) 0808  
CUSTOMER PART #/NAME: Not applicable  
PRODUCT TRADE NAME: 2.8 VOC EPOXY HARDENER  
CHEMICAL FAMILY: Polyamide  
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  
(414) 947-0700  
DATE OF MSDS PREPARATION: 03/11/99

**PRIMARY HAZARD WARNING**

Combustible. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Harmful if swallowed. May cause skin burns. This product contains a material which causes irreversible eye damage. May be absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction. Vapor and/or spray mist harmful if inhaled. May cause irritation and/or allergic respiratory reaction in lungs. Vapor 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	AROMATIC HYDROCARBON	20- <30	64742-94-5	
02	2,4,6 TRIS (DIMETHYLAMINOMETHYL) PHENOL	1 - <5	90-72-2	
03	NAPHTHALENE	1 - <5	91-20-3	
04	PARACHLOROBENZOTRIFLUORIDE	20- <30	98-56-6	
05	POLYAMIDE RESIN	40- <50	NOT ESTAB.	

\* 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	Y	N	Y	N	N
02	NOT ESTAB	NOT ESTAB	N	Y	Y	N	N	N
03	100	NOT ESTAB	Y	Y	N	Y	N	N
04	NOT ESTAB	NOT ESTAB	N	Y	Y	Y	N	N
05	NOT ESTAB	NOT ESTAB	N	Y	Y	N	N	N

SARA 311/312 CATEGORIES FOR THIS PRODUCT: ACUTE= Y, CHRONIC= Y, FLAMMABILITY= Y, 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	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.
02	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.	NOT ESTAB.
03	10 ppm	15 ppm	10 ppm	15 ppm
04	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB
04	IPEL-TWA: 25 ppm		IPEL-STEL: NOT ESTAB.	
05	NOT ESTAB	NOT ESTAB	NOT ESTAB	NOT ESTAB

[C- 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:** This product contains a material which causes irreversible eye damage.

► **SKIN CONTACT:** May cause skin burns. May be absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

► **INHALATION:** Vapor and/or spray mist harmful if inhaled. May cause irritation and/or allergic respiratory reaction in lungs. Vapor irritates eyes, nose, and throat. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage.

► **CHRONIC OVEREXPOSURE:** Avoid long-term and repeated contact. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. Prolonged inhalation of an ingredient(s) in this product may cause edema of the lungs and/or lung damage. This product contains naphthalene. Naphthalene has caused chronic eye injuries in humans exposed for about five years in excess of the ACGIH TLV.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Eye watering, headaches, nausea, dizziness, and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. 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.

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**CONTACT:** In case of eye contact, remove contact lenses, flush eye immediately with a gentle stream of warm water for at least 30 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 vapor or spray mist, remove to fresh air. Apply artificial respiration and other support measures as required.  
**INGESTION:** 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.

### SECTION 5 - FIRE FIGHTING MEASURES

**FLASHPOINT:** 125 Degrees F ( 51 Degrees C) (PENSKY-MARTENS CLOSED CUP)

**FLAMMABLE LIMITS:** Lower explosion limit (LEL): .8

Upper explosion limit (UEL): Not available

**EXTINGUISHING MEDIA:** Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous foam) designed to extinguish NFPA Class II combustible liquid fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**MEASURES TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in a single 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:** Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and constructed for storage of NFPA Class II combustible liquids.

**MIXING PRECAUTIONS:** Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

### SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT FOR:

**FACE PROTECTION:** Wear chemical-type splash goggles or full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

**SKIN PROTECTION:** Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: impermeable material. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment.

**RESPIRATORY PROTECTION:** Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. 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.

**CLOTHING:** Clean contaminated clothing and shoes.

**VENTILATION REQUIREMENTS:** Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of vapors listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products from welding or flame cutting.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

MELTING RANGE: 282- 410Degrees F

SOLUBILITY IN WATER: 2.3 %

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MSDS continued on page 4

VAPOR PRESSURE: 1.0 mmHg

WEIGHT/GALLON (LBS): 8.66 (U.S.)

VAPOR DENSITY: Heavier than air

% VOLATILE/VOLUME: 46.840

SPECIFIC GRAVITY: 1.039

ODOR/APPEARANCE: Viscous liquid with an odor characteristic of the solvents listed in Section 2.

pH: Not applicable

% SOLIDS BY WEIGHT: 51.53

EVAPORATION RATE(BuOAc = 100): 3

**SECTION 10 - STABILITY AND REACTIVITY**

► This product is normally stable and will not undergo hazardous reactions.

► **INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):** Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.

► **HAZARDOUS DECOMPOSITION PRODUCTS:** May produce the following hazardous decomposition products when exposed to extreme heat: carbon monoxide ; carbon dioxide ; oxides of nitrogen ; chlorinated products ; fluorinated products ; 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	
HEALTH	3*	HEALTH	3
FLAMMABILITY	2	FLAMMABILITY	2
REACTIVITY	0	INSTABILITY	0

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

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: 274229SP (00137849.001274229SP )