

# MATERIAL SAFETY DATA SHEET

Emergency Telephone Number: 800.659-0908.

Manufactured By: ELITE COATINGS, 120 Tremon Street Gordon, GA 31031

While we believe that the data herein is accurate & derived from quality sources, this data is not to be taken as a warranty or product liability.

It is offered solely for your consideration and personal protection.

## SECTION I - PRODUCT IDENTIFICATION

Product: ELITE P-281, (Zinc)  
U.S. DOT proper shipping name Drums/Pails/Samples Paint 3, UN-1263  
Formula: Proprietary  
Chemical Family: Zinc

## SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	CAS#	TLV	PEL
Zinc	7440-66-6	10	15

## SECTION III - PHYSICAL DATA

Boiling Point: 1,675° F	Vapor Pressure (mmHg): N/A
Vapor Density (Air=1): Heavier Than Air	Melting Point (°C): N/A
Specific Gravity: 58.8	Solubility in Water: Slightly Soluble
Evaporation Rate: Slower Than Ether	Appearance: Gray
VOC = N/A	Odor: N/A

## SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (Method Used): Setaflash 500°F      Flammable Explosion: LEL= N/A    UEL= N/A

Extinguishing Media: Dry Chemical

Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires.

Unusual Fire and Explosion Hazards: Handle as flammable liquid . Vapors form an explosive mixture in air between the upper and lower explosive limits which can be ignited by many sources such as pilot lights, open flames, electrical motors and switches.

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**SECTION V - HEALTH HAZARD DATA****HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

**Inhalation-**Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness and even asphyxiation.

**Skin and Eye Contact-**Eye Contact: Severe irritation, tearing, redness and blurred vision.

**Skin Absorption-**Skin Contact: Can dry and defat skin causing cracks, irritation and dermatitis.

**Ingestion-**Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea.

**Carcinogenicity:**

NTP: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

**Medical Conditions Generally Aggravated by Exposure- High vapor concentrations (greater than approximately 1000 ppm)** are irritation to the eyes and the respiratory tract, may cause headache and dizziness, are anesthetic, and may have other central nervous system effects.

**EMERGENCY FIRST AID PROCEDURES**

**Inhalation Overexposure-**Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

**Eye Contact-**Flush with large quantities of water for 15 minutes

**Skin Contact-**Wash thoroughly with soap and water and see a doctor.

**Ingestion-**Do not induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact a physician immediately.

**SECTION VI - REACTIVITY DATA**

**STABILITY:**Stable

**CONDITIONS TO AVOID**Keep away from fire, sparks, or ignition sources.

**INCOMPATIBILITY (materials to avoid)**Alkaline materials, strong acids and oxidizing materials

**HAZARDOUS DECOMPOSITION PRODUCTS**Unknown other than CO<sub>2</sub> and carbon smoke. May produce hazardous fumes when heated to decomposition as in welding.

**HAZARDOUS POLYMERIZATION**Will not occur.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps to be taken in case material is released or spilled-** Keep people away. Add sand, earth or other suitable absorbent to spill area. Keep product out of sewer and water courses by diking. Advise authorities if product has entered or may enter sewers or waterways.

**Waste disposal method-** Consult local authorities as product is considered a hazardous material and may be subject to disposal restrictions. Do not wash into sewers. Do not exhaust dusts into the air. Keep waste rags in a labeled safety container. Do not incinerate. Disposal must be in accordance with state, local and federal regulations.

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**Precautions to be taken in handling and storing** Use in well ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Containers of this material may be hazardous when emptied. Since containers retain product residues (vapor, liquid, and or solid) all hazardous precautions given in this data sheet must be observed. **DO NOT WORK ALONE! KEEP OUT OF THE REACH OF CHILDREN.**

**Other precautions-** The information accumulated herein is believed to be accurate but is not warranted to be, whether origination with RCB Coatings or not, recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This product should not be swallowed or allowed to come in contact with the eyes.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION**NIOSH approved protection must be used in accordance with existing standards and must be worn if TLV is exceeded.

**VENTILATION**Provide greater than 60 ft/min. hood face velocity.

**PROTECTIVE GLOVES**Use chemical resistant gloves if needed to avoid prolonged or repeated contact with skin.

**EYE PROTECTION**Use chemical safety glasses, goggles, and face-shields for eye protection.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended.

**WORK/HYGIENIC PRACTICES**Eye washes and safety showers in the workplace are recommended. Remove contaminated clothing; launder or dry-clean before reuse. Wash thoroughly with soap and water.

**SECTION IX - ADDENDUM TO MSDS (Identifies SARA 313 Substances)**

SOLVENT	SARA EHS Sec.302	CERCLA Sec.103	RCRA Sec.261.33
PQ (lbs)	RQ (lbs)	(If Pure)	
Zinc	Unknown	Unknown	Unknown

- SARA Section 311/312: Acute.
- SARA Section 302 RQ: Reportable Quantity of Extremely Hazardous Substances, from 40 CFR 355
- SARA Section 302 TPQ: Threshold Planning Quantity of Extremely Hazardous Substances.
- SARA Section 313 Chemicals: Toxic Substances subject to the annual reporting requirements listing at 40 CFR 302.4.
- CERCLA Section 103: Release to air, land, or water of these hazardous substances which exceed the RQ must be reported to the National Response Center, (800-424-8802). Listed at 40 CFR 302.4.
- RCRA: Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33.

THE INFORMATION CONTAINED HEREIN IS BASED ON TECHNICAL DATA WHICH WE BELIEVE TO BE RELIABLE. HOWEVER, SINCE THE CONDITIONS UNDER WHICH THIS INFORMATION MAY BE APPLIED IS BEYOND OUR CONTROL, WE CAN ASSUME NO LIABILITY FOR RESULTS OF ITS APPLICATION. ONLY PERSONS HAVING SUFFICIENT TECHNICAL SKILL TO MAKE INFORMED JUDGMENTS REGARDING ITS APPLICATION SHOULD USE THIS INFORMATION.

Date: 8/28/03

## **SUPPLIER NOTIFICATION**

UNDER SECTION 313 OF SARA

Dear ELITE Customer,

Pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR 372, the products listed below contain toxic chemicals in quantities subject to the reporting requirements under Section 313. (See below.)

Effective January 1, 1989, any persons who sells or otherwise distributes a mixture of trade name product containing toxic chemicals must provide written notice to the recipient with the first shipment in each calendar year. If the recipient repackages or otherwise redistributes this product, a notice indicating that this product is subject to the reporting requirements of Section 313, including the reporting chemical name/category, CAS number and percent by weight, must accompany the shipment.

Please note that the Notification letter must be attached and remain attached to the Material Safety Data Sheet.

### **ELITE P-281 (Zinc)**

Contains:	CAS Number	Percent by Weight
Zinc	7440-66-6	100%

If you have any questions regarding the notification requirement or any of the above mentioned information, please do not hesitate to call 800.659-0908.

Sincerely,  
ELITE Coatings Inc

MATERIAL SAFETY DATA SHEET  
Emergency Telephone Number: 800.659-0908.

Manufactured By: ELITE COATINGS, 120 Tremon Street Gordon, GA 3

While we believe that the data herein is accurate & derived from quality sources, this data is not to be taken as a warranty or product liability. It is offered solely for your consideration and personal protection.

SECTION I - PRODUCT IDENTIFICATION

Product: ELITE M-141 (Activator for P-281)  
U.S. DOT proper shipping name Drums/Pails/Samples Paint 3, UN-1263, PG II  
Formula: Proprietary  
Chemical Family: Epoxy

SECTION II - HAZARDOUS INGREDIENTS

Ingredient(s)	CAS#	TLV	PEL
Xylene	1330-20-7	100	100
Toluene	108-88-3	50	100
Isopropyl Alcohol	67-63-0	400	400
High Flash Naphtha	64742-95-6	100	100

SECTION III - PHYSICAL DATA

Boiling Point: 230-350°F	Vapor Pressure (mmHg): 68°F= 22
Vapor Density (Air=1): Heavier than Air	Melting Point (°C): N/A
Specific Gravity: 1.06	Solubility in Water: Negligible
Evaporation Rate: Slower than Ether	Appearance: Gray
VOC = 5.05 lbs/gal	Odor: Aromatic

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point (Method Used): Setaflash 45°F      Flammable Explosion: LEL= 1.0%    UEL= 7.0%

Extinguishing Media: (1) FOAM (2) ALCOHOL FOAM (3) CO2 (4) DRY CHEMICAL

Special Fire Fighting Procedures: Dry Chemical, Carbon Dioxide, Water Spray or Regular Foam. Full protective equipment including self-contained breathing apparatus should be used. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up due to extreme heat. CAUTION: A straight stream of water will spread fire.

Unusual Fire and Explosion Hazards: Vapor accumulation will flash and/or explode, if ignited. Containers may burst explosively if overheated in fire. Cool with water spray or fog. Empty containers also present fire explosion hazard due to residual vapors. Keep containers tightly closed. During emergency situations, over-exposure to decomposition products may cause a health hazard with no symptoms immediately apparent. Obtain medical attention.

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SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Some reports have associated repeated, prolonged overexposure to solvents with permanent central nervous system changes. Misuse by concentrating and inhaling the contents may be harmful or fatal.

ACUTE: Inhalation - Anesthetic. Irritation of respiratory tract or acute nervous system depression. Over-exposure may result in headaches and nausea possibly followed by loss of consciousness. Ingestion: Gastrointestinal irritation including vomiting can occur. Aspiration of material into lungs may result in chemical pneumonitis, which can be fatal. Skin contact: May result in irritation and absorption through Eye contact: May cause irritation.

Carcinogenicity:

NTP: No

IARC MONOGRAPHS: No

OSHA REGULATED: No

EMERGENCY & FIRST AID PROCEDURES:

Vapor Inhalation - Restore to fresh air. Keep warm and quiet. Notify a physician.

Eye Contact - Flush IMMEDIATELY with copious amounts of running water or at least 15 minutes. Take to physician for definitive medical treatment.

Skin Contact - Clean and wash affected area with water. Consult a physician.

Ingestion - Drink 1 or 2 glasses of water to dilute. DO NOT INDUCE VOMITING! Call physician immediately!

TOXICITY: Slightly toxic by ingestion.

CAUTION: Product may become SLIPPERY WHEN WET.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Heat, open flames, and electrical and static discharge.

INCOMPATIBILITY (materials to avoid): Strong acid, alkalis, and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Unknown other than CO2 and possible CO and carbon smoke.

May produce hazardous fumes when heated to decomposition as in welding.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS IF SPILLED: Ventilate area. Remove all possible sources of ignition. Avoid prolonged breathing of vapors. Confine spills with inert absorbent and clean up with spark-proof tools.

WASTE DISPOSAL: Dispose of in accordance with local, state, and federal regulations. Land fill or incinerate in approved facility by licensed contractor. Do not incinerate in closed container.

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SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH/MSHA TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas & vapors. Use an air-supplied respirator if necessary.

VENTILATION: Use adequate ventilation in volume and pattern to keep TLV's and PEL's (Section II) below recommended levels, and flammable limits in air (Section IV) below the level necessary to produce explosion or fire. General mechanical ventilation should comply with OSHA 1910.94, 1910.107, 1910.108.

PROTECTIVE GLOVES: To prevent prolonged exposure, use rubber gloves. Solvents may be absorbed through the skin.

EYE PROTECTION: Safety glasses or goggles with splashguards or side shields.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact to contaminated clothing.

SECTION IX - SPECIAL PRECAUTIONS

HANDLING & STORAGE PRECAUTIONS: Do Not store over 120°F. Avoid spillage. When storing large quantities, store in building designed and protected against flammable liquids. Use static lines when mixing and transferring material. Do Not allow material to free fall more than five (5) inches.

OTHER PRECAUTIONS: "FOR INDUSTRIAL USE ONLY". DO NOT TAKE INTERNALLY.

IF INGESTED, DO NOT INDUCE VOMITING. CONSULT A PHYSICIAN.

KEEP OUT OF REACH OF CHILDREN

SECTION X - ADDENDUM TO MSDS (Identifies SARA 313 Substances

SOLVENT	SARA EHS Sec.302		SARA Sec.313		CERCLA Sec.103	RCRA Sec.261.1
	RQ (lbs)	TPQ (lbs)	RQ (lbs)	RQ (lbs)	(If Pure)	
Isopropyl Alcohol	No	No	No	N/A	Yes, D001	
Xylene	No	No	Yes	1000	No	
Toluene	No	No	Yes	Unknown	No	
High Flash Naptha Solvent	N/A	N/A	No	N/A	N/A	

SARA Section 311/312: Acute, Delayed, Fire.

SARA Section 302 RQ: Reportable Quantity of Extremely Hazardous Substances, from 40 CFR 355

SARA Section 302 TPQ: Threshold Planning Quantity of Extremely Hazardous Substances.

SARA Section 313 Chemicals: Toxic Substances subject to the annual reporting requirements listing at 40 CFR 302.4.

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Please note that the Notification letter must be attached and remain attached to the Material Safety Data Sheet.

ELITE M-141 (Activator for P-281)

Contains:	CAS Number	Percent by Weight
Toluene	108-88-3	20%
Xylene	1330-20-7	10%
Isopropyl Alcohol	67-63-0	6%
High Flash Naptha	64742-95-6	5%

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Sincerely,  
ELITE Coatings Inc