

MATERIAL SAFETY DATA SHEET

SECTION 1: Product Identification

TECHNICAL DESCRIPTION: TT-P-645B, meets Federal Specification TT-P645B(SH), dated August 9, 2006
PRODUCT NAME: PRIMER, PAINT, ZINC-MOLYBDATE, ALKYD TYPE, Formula 84
SKUs: 645B-GL, 645B-CN

SECTION 2: Hazardous Ingredients

Chemical	CAS Number	% by Weight	Exposure Limits in Air	
			ACGIH (TLV)	OSHA (PEL)
Titanium Dioxide	13463-67-7	0 – 10	10 mg/m ³ (total dust)	15 mg/m ³ (total dust)
Zinc Molybdate	13767-32-3	5 – 7	10 mg/m ³	10 mg/m ³
Zinc Oxide	1314-13-2	15 - 17	10 mg/m ³	10 mg/m ³ (total dust)
Stoddard Solvent	8052-41-3	3 – 10	100 ppm-twa	200 ppm-twa
Nickel Antimony Titanium Yellow	8007-18-9	16 – 18	n/a	n/a
Magnesium Silicate (Talc)	14807-96-6	8 – 10	2 mg/m ³ twa	5 mg/m ³ twa (respirable dust)
Xylene	1330-20-7	0 – 2	100 ppm-twa	100 ppm-twa
Ethyl Benzene	100-41-4	<1	100 ppm-twa	100 ppm-twa

SECTION 3: Physical/Chemical Characteristics

VOC (Volatile Organic Content): Less than 340g/L (2.8 lb./gal.)
VAPOR PRESSURE: 2.0 mmHg at 68°F
BOILING RANGE: 310–390°F (154–197°C) at 760 mmHg

WT/GAL.: 12.6 – 13.6 Lbs.
SPECIFIC GRAVITY: 1.51 – 1.63
VAPOR DENSITY: 4.9 (Air = 1)

SECTION 4: Fire and Explosion Hazard Data

HMS: H-2 F-3 R-0 P-H

US DOT Category: Flammable Liquid
Flashpoint (TCC): 105°F (40°C)

Hazard Class: 3
Shipping Class: 55

ID No.: UN-1263
Packaging Group: III

EXTINGUISHING MEDIA: Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA class IC flammable liquid fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flames. Closed containers may explode when exposed to

extreme heat. Do not apply on hot surfaces. Toxic gases may form when product is contacted by flame or hot surfaces.

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 auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Fire fighters should wear self-contained breathing apparatus.

SECTION 5: Reactivity Data

STABILITY: Stable
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.
HAZARDOUS POLYMERIZATION: Not expected to occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield Carbon Dioxide and/or Carbon Monoxide. When heated above 700°C metal fumes may be released.

SECTION 6: Spill or Leak Procedures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sawdust, vermiculite, or other absorbent material and place into containers for disposal.

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: Health Hazard Data

EFFECTS OF OVEREXPOSURE FROM:
INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
EYE CONTACT: Causes severe eye irritation.
SKIN CONTACT: Causes primary skin irritation. May

be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.
INHALATION: Vapor and spray mist harmful if inhaled. Vapor irritates eyes, nose,

and throat. May irritate lungs. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. **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. This product contains a low level of formaldehyde.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye watering, headaches, nausea, dizziness, and loss of coordination are indication that solvent levels are too high. 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 8: First Aid Procedures

INGESTION: If swallowed seek immediate medical attention. If individual is drowsy or unconscious do not give anything by mouth. Do not induce vomiting unless directed to do so by medical personnel. Do not leave individual unattended.

EYE CONTACT: In case of eye contact, flush eyes immediately with plenty of water for at least 15 minutes. Seek immediate medical attention.

SKIN CONTACT Remove contaminated clothing. Flush exposed area with large amount of water, launder clothing before reuse. If skin is irritated, seek immediate medical attention.

INHALATION: If affected by inhalation of vapor or spray mist, remove to fresh air. Apply artificial respiration and other supportive measures as required. If symptoms develop, seek medical aid.

OTHER: If ingested or symptoms of overexposure occurs, contact a poison control center (800) 854-6813, emergency room or physician immediately; have Material Safety Data Sheet information available.

SECTION 9: Protection Information

PERSONAL PROTECTIVE EQUIPMENT:

EYE 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 impermeable clothing sufficient to cover exposed skin surfaces. **RESPIRATORY PROTECTION:**

Overexposure to vapors may be prevented by ensuring ventilation controls, vapor exhaust or fresh air entry. (NIOSH/MSHA-Approved 9TC-23C) air purifying or air supplied (TC-19C) respirators may also reduce exposure. Read respirator manufacturer's instructions

and literature carefully to determine the type of airborne contaminants against which the respirator is effective and how it is to be properly fitted. **OTHER EQUIPMENT:** Clean or discard contaminated clothing and shoes. **VENTILATION REQUIREMENTS:** Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, and to remove decomposition products during welding of flame cutting.

SECTION 10: Special Precautions

HANDLING PRECAUTIONS: Avoid contact with skin or eyes, avoid breathing vapors. Handle in well ventilated work space and prevent buildup of vapors, especially in low lying areas. Do not eat, drink or smoke when handling. Empty container may contain explosive vapor. Remove all potential sources of ignition from vicinity when handling. All containers should be grounded or banded when material is transferred. Smoking in the area is prohibited. Avoid using in any spray application without strict conformance to all applicable electrical codes and the OSHA limit for maximum allowable airborne concentrations.

STORAGE PRECAUTIONS: Do not store above 120°F. Store large quantities in building designed and protected for storage of NFPA class IC flammable liquids. Keep container closed when not in use. Keep away from oxidizers, heat, flames, and sparks. Keep in cool, dry ventilated storage area, and store away from ignition sources.

OTHER PRECAUTIONS: Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

SECTION 11: Transportation Information

DOT PROPER SHIPPING NAME: **PAINT**
DOT UN NUMBER: **1263**

DOT HAZARD CLASS: **3**
PACKING GROUP: **III**

OTHER INFORMATION

TSCA Certification: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

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