

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

U.S. PLY, INC.  
P.O. Box 11740  
Fort Worth, TX 76104

### Non-Emergency Information

Telephone: U.S. PLY, INC. (866) 787-4759 or (817) 413-0103

### Emergency Information

Transportation Emergency Telephone: 1-800-424-9300

Product Name: USP ENERGYPRIME

Product Use: Rust Inhibiting Primer

## SECTION 2 – COMPOSITION (INFORMATION OF INGREDIENTS)

Reportable Components	CAS Number	Vapor Pressure Mm Hg	Weight Percent (+/-2%)
Mineral Spirits	64742-88-7	2 mm	27%
Ethyl benzene	100-41-4	7.1 mm	0.4%
Xylene	1330-20-7	6 mm	2%
Talc	14807-96-6	N/A	10%
Chromium Zinc Oxide	50922-29-7	N/A	5%
Chromium VI (as Cr)	Mixture	N/A	1.44%

## SECTION 3 – HAZARDS IDENTIFICATION

### Physical Hazards:

**APPEARANCE AND ODOR:** Translucent Red, Slight solvent odor

### Potential Health Effects:

Irritating to eyes, respiratory system and skin.

### Exposure Routes:

Primary: Inhalation, skin contact and eye contact.

**Inhalation:** Irritation of the upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

**Skin Contact:** Contact with the skin may cause irritation, which may cause the following symptoms: reddening, swelling, rash, scaling or blistering. Cured product is difficult to remove from skin. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**Absorption:** Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**Eye Contact:** Contact with the eyes can cause tearing, reddening and swelling. If left untreated, corneal damage can occur, and injury is slow to heal.

**Ingestion:** Swallowing small amounts of this product during normal use is not likely to cause any adverse health effects. Ingestion of larger amounts can result in corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

**Chronic Effects:** As a result of previous repeated overexposure or a single large dose, certain individuals may develop headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Read the entire MSDS for a more thorough assessment to the hazard information on this product.

## SECTION 4 – FIRST AID MEASURES

**General:** In case of accident or if you feel unwell, seek medical advice IMMEDIATELY. (Show the product label where possible)

**Inhalation:** Remove victim from exposure to well ventilated area. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing.

**Skin Contact:** Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.

**Eye Contact:** Immediately flush eyes running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Consult a physician IMMEDIATELY.

**Ingestion:** Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

**Note to Physicians:** Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

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**SECTION 5 – FIRE-FIGHTING MEASURES**

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**Flash Point:** >99°F and below 200°F      **Method Used:** TCC

**Flammable Limits In Air by Volume:**  
(Lower): 1      (Upper): 7.0

**Extinguishing Media:** Use foam, dry chemical, CO<sub>2</sub>, or water.

**Unusual Fire and Explosion Hazards:** Closed containers may explode to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**Fire Fighting Procedures:** As appropriate for surrounding materials/equipment. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition when exposed to extreme heat.

**Fire Fighting Protective Equipment:** Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

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For major spills call CHEMTREC (800-424-9300).

**Spills, Leaks, or Releases:** Remove all sources of ignition. Ventilate area. Contain the spilled material and then cover with a loose, absorbent material such as oil-dry, vermiculite, sawdust or fuller's earth. Shovel waste material into proper waste containers. In case of large spill, dike the area to prevent this material from entering water systems or sewers. Wash the contaminated areas with hot soapy water thoroughly. Ventilate area to remove vapors. (See section 12: Disposal Considerations)

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**SECTION 7 – HANDLING AND STORAGE**

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**Handling:** Avoid breathing aerosols, mists and vapors. Avoid prolonged or repeated skin contact (See Section 8—Exposure Control for details)

**Storage Requirements:** Containers should be tightly sealed to prevent moisture contamination and stored indoors in a cool well-ventilated area. Do not reseal if contamination is suspected. Keep away from heat, sparks and open flame. Never use welding or cutting torch on or near any container (even empty) as an explosion can occur. Do not expose to high temperatures for any length of time.

**Storage Temperature:** Avoid storage above 100°F.

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**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**PREVENTATIVE MEASURES:**

Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

Exposure Guidelines	OSHA	ACGIH
Mineral Spirits (64742-88-7)	100 ppm PEL/TWA	100 ppm TLV 150 ppm STEL
Ethyl benzene (100-41-4)	100 ppm PEL/TWA 125 ppm PEL/STEL	100 ppm TLV/TWA 150 ppm TLV/STEL
Xylene (1330-20-7)	100 ppm PEL/TWA 150 ppm PEL/STEL	100 ppm PEL/TWA 150 ppm PEL/STEL
Talc (14807-96-6)	Respirable Dust: 2 mg/m <sup>3</sup> PEL/TWA	Respirable Dust: 2 mg/m <sup>3</sup> TLV
Chromium Zinc Oxide (50922-29-7)	PEL N/A	0.01 mg/m <sup>3</sup> TLV
Chromium VI (mixture)	PEL/NA	TLV/NA

**Work/Hygienic Practices:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverage should be kept away from areas where the product is used or stored. Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

**Engineering Controls:** Use local exhaust ventilation to maintain airborne concentrations below the TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. For guidance on engineering control measures refer to publications such as the ACGIH current edition of "Industrial Ventilation, a manual of Recommended Practice."

**PERSONAL PROTECTIVE EQUIPMENT:**

**Eye Protection:** Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Hand Protection:** Chemical resistant gloves, such as natural rubber, or polyvinyl alcohol. Cover as much skin as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

**Respiratory Protection:** Do not breathe aerosols or vapors. If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in the work area.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Translucent Red Liquid  
 Odor: Slight solvent  
 Flash Point: > 99°F; < 200°F  
 Vapor Density (Air=1): Not Established  
 Boiling Point: 281 - 395°F  
 Solubility (Water): N/A  
 VOC: < 400 grams / liter  
 Specific Gravity: 1.35  
 Evaporation Rate: Slower than ether  
 Vapor Density: Heavier than air

**SECTION 10 – STABILITY AND REACTIVITY**

Hazardous Decomposition Products:

By fire: Carbon Dioxide, Carbon Monoxide, Oxides of Metals in Section 2.

Chemical Stability:

This is a stable product.

Conditions to Avoid:

Keep away from heat, sparks, or flame and moisture.

Incompatibility:

Keep away from strong oxidizing agents, concentrated nitric and sulphuric acids, halogen and molten sulphur. Also, contact with water or moisture will cause this product to cure.

Hazardous Polymerization:

May occur. See "Conditions to avoid".

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Potential Health Effects: May aggravate pre-existing respiratory and skin disorders.

Ethyl benzene	is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethyl benzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethyl benzene causes cancer in humans.
Chromates:	Are listed by IARC and NTP. Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
CAS No.	Ingredient Name
64742-88-7	Mineral Spirits LC50 RAT 4HR Not Available LD50 RAT Not Available
100-41-4	Ethyl benzene LC50 RAT 4HR Not Available LD50 RAT 3500 mg/kg
1330-20-7	Xylene LC50 RAT 4HR 5000 ppm LD50 RAT 4300 mg/kg
14807-96-6	Talc LC50 RAT 4HR Not Available LD50 RAT Not Available
50922-29-7	Chromium Zinc Oxide LC50 RAT 4HR Not Available LD50 RAT Not Available

**SECTION 12 – ECOLOGICAL INFORMATION**

No data is available.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

Liquid waste must be disposed of in accordance with Federal, state and local regulations. Incineration is the preferred method. For further, information contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-434-9300 or 202-382-3000). Chemical waste, even small quantities should never be poured down drains, sewers or waterways.

**SECTION 14 – TRANSPORT INFORMATION**

DOT: Coating Solution, 3, UN1139, PGIII.

Transportation Emergency Telephone Number: 1-800-424-9300 (CHEMTREC)

**SECTION 15 – OTHER INFORMATION**

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethyl benzene	0.3	
1330-20-7	Xylene	2	
	Chromium Compound	5	1.4
	Zinc Compound	5	1.8

**CALIFORNIA PROPOSITION 65 WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA (Toxic Substances Control Act) Regulations:** This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

NFPA: Health 2; Fire 2; Reactivity 0

HMIS: Health 2; Flammability 2; Reactivity 0; Protection X

Original: 10/10/2005

Revision: 05/31/2006