

Safety Data Sheet



1. Product and Company Identification

Product Name: **Primax® P**
Material Uses: Primer for Rubbers & Thermoplastics
(M)SDS#: PrimaxP-20171024
Validation Date: October-24-2017
Supplier/Manufacturer: Specialty Polymers & Services, Inc. (SP&S, Inc.)
27822 Fremont Court
Valencia, California (CA) 91355, U.S.A.
Non-emergency phone number: (661) 294-1790 (7AM – 5PM PST)
E-mail: msds@spolymers.com

In case of emergency: Chemtrec (800) 424-9300 or (703) 527-3887

2. Hazards Identification

GHS CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Flammable Liquids:	Category 2, H225	Eye damage/irritation:	Category 2A, H319
Specific Target Organ Toxicity - Single Exposure:	Category 1, H370	Acute Toxicity (Inhalation):	Category 4, H332
Specific Target Organ Toxicity - Single Exposure (Respiratory tract):	Category 3, H335	Specific Target Organ Toxicity - Repeated Exposure:	Category 2, H373
Aquatic Hazard, Chronic:	Category 1, H410	Aquatic Hazard, Acute:	Category 1, H400

GHS LABEL ELEMENTS:

HAZARD SYMBOLS:



SIGNAL WORDS: DANGER!

HAZARD STATEMENTS:

H225 Highly Flammable liquid and vapor.

H370 Causes damage to organs (Respiratory system).

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure (Adrenal gland, Blood, body weight, brain, Liver, Thyroid).

H400 Very toxic to aquatic life.

PRECAUTIONARY STATEMENTS:

PREVENTION: P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mists.

P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, clothing, and eye/face protection.

RESPONSE: P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER and/or doctor.
P303+P361+P364+P353+P352 IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower. Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER and/or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P308+P311 IF exposed or concerned: call a POISON CENTER or doctor/physician.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use DRY chemical, DRY sand, alcohol-resistant foam, water spray/fog or carbon-dioxide to extinguish.
P391 Collect spillage.

STORAGE: P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 Store locked up.

DISPOSAL: P501 Dispose of contents and containers in accordance with local, regional and international regulations.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – Annex III

See toxicological information (section 11)

General Information: Read entire MSDS for a more thorough evaluation of the hazards

3. Composition / Information on Ingredients

Name	CAS Number	%
Ethyl acetate	141-78-6	80 – 100
Trichloroisocyanuric acid	Proprietary	1 – 5

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

4. First Aid Measures

Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.
Skin Contact:	In case of contact, wash affected areas with plenty of water, and soap, if available, for several minutes. Remove and clean contaminated clothing and shoes before re-use. Get medical attention if irritation occurs.
Inhalation:	Move exposed person to fresh air. If not breathing, give artificial respiration or oxygen. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen. Loosen tight clothing such as a collar, tie, belt, or waistband. Get immediate medical attention.
Ingestion:	Wash out mouth with water. If swallowed dilute by giving two (2) glasses water to drink. Do not induce vomiting until direct to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Call poison control center if large quantities were ingested

5. Fire-Fighting Measures

Flash point:	-3.9°C (25°F) closed cup
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials: halogen gas and a potentially explosive substance, carbon dioxide, carbon monoxide, and oxides of nitrogen.
Extinguishing Media:	Carbon dioxide, dry chemical, foam, water fog.

Promptly isolate the scene by removing all persons from the vicinity of the fire. No actions shall be taken involving any personal risk or without suitable training. Flammable liquid and vapor. **WARNING:** Nitrogen trichloride, a potential explosive substance, can be generated if high concentrations of dried residue of this product is mixed with small quantities of water. Do not add small amounts of water to dried residue. Do not mix dried residue with organic or damp materials. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat.

Special Exposure Hazards: Do not mix dried residue with organic or damp materials. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat.

Special Protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Water spray may be ineffective. If water is used, fog nozzles are preferable.

6. Accidental Release Measures

Personal Precautions: No actions shall be taken involving any personal risk or without suitable training. Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks) Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering area. Do not touch or walk through spilled material. Avoid breathing vapor or mist and provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Avoid dispersal of spilled material and runoff that leads to contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.

Methods of Clean Up: Stop leak if without risk. Move containers from spill area. Approach spill from up wind if possible. Prevent spill from entering sewers, rivers and other water courses, basements, or confined areas. Wash into effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations. Dispose of only using a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information.

7. Handling and Storage

Handling: Wear appropriate personal protective equipment (see Section 8) when handling. Eating, drinking, and smoking should be prohibited in areas where chemicals are handled, stored, or processed. Workers should wash hands and face before eating, drinking, and smoking. Avoid breathing vapor or sprays. Do not handle until all safety precautions have been read and understood. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in processes where this material is used. Keep in the original container or a suitable alternate made from a compatible material. Keep all containers tightly closed and upright when not in use to prevent leakage. Empty containers retain product residue and should be disposed of properly. Do not reuse empty containers for other purposes or to hold other materials. Empty containers may retain product residue and flammable vapors, keep away from heat, sparks, and flame; do not cut, puncture or weld on or near the empty container. See section 5 for cautionary information on handling of the dried residue of this product.

Storage: Do not store or use near heat, sparks, or open flame. Store in accordance with local regulations, consider OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids". Store in original containers at 15°C - 25°C (59°F - 77°F). Do not store in metal container due to long-term incompatibility; may corrode metal container over an extended period, causing possible leakage. Keep away from food and drink. Keep all containers tightly closed when not in use and tightly re-seal after use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store only in well-ventilated areas. Do not puncture, drag, or slide container.

8. Exposure Controls / Personal Protection

Ingredient	Exposure limits
Ethyl Acetate	ACGIH Threshold Limit Values (TLV): TWA 400 ppm Occupational Exposure Limits (OSHA): TWA 400 ppm / 1400 mg/m ³
Trichloroisocyanuric acid	Limits not established

Recommended Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace, atmospheric, or biological monitoring may be required to determine the effectiveness of the ventilation system or other control measures and/or to determine whether it is necessary to use respiratory protective equipment. Consider

Engineering measures:	European Standard EN 689 or similar industry or governmental guidelines for appropriate methods for the assessment of exposure by inhalation to chemical agents and/or hazardous substances. Sufficient ventilation in pattern and volume should be provided to maintain air contaminant levels below recommended limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.
Hygiene measures:	Wash hands, forearms, and face thoroughly after handling any chemical products, before eating, smoking, and using the lavatory and at the end of the work period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

Respiratory:	A respiratory protection program in compliance with 29CFR1910.134, or other applicable regulatory standard must be followed whenever exposure limits may be exceeded. If engineering controls are not feasible, or if inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands:	Wear neoprene, nitrile rubber, butyl or other suitable impervious gloves; consider European Standard EN374 or similar industry or governmental guidelines. Consider the parameters specified by the glove manufacture and check gloves during use to ensure they are retaining their protective properties. Gloves selected must have a breakthrough rating appropriate for the work shift. If a risk assessment indicates that it is necessary, gloves should always be worn when handling chemical products.
Eyes:	When a risk assessment indicates, safety eyewear complying with an approved standard, such as OSHA Standard 29CFR1910.133 or European Standard EN166, should be used to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, at a minimum use chemical splash goggles. If significant splash hazard may occur, consider using a full-face shield.
Skin:	Personal Protective equipment for the body should be selected based on the task being performed and the risks involved. Typical protective equipment includes non-absorbent lab coats, disposable protective sleeves, coats, or whole-body suits. Consider CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Consider seeing a safety specialist to determine the appropriate level of protection for your task.
Environmental Exposure Controls:	Emissions from ventilation or work processes should be checked to ensure they comply with the requirements of environmental regulations. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and Chemical Properties

Appearance:	Clear liquid	Odor	Solvent
Boiling Point:	77°C (171 °F) (initial)	Freezing Point:	Not determined
Flash Point:	-3.9°C (25°F) closed cup	pH:	Not applicable
Auto-ignition Temperature:	Not determined	Flammable Limits:	Lower: 2.5%(V), Upper: 9.0%(V)
Vapor Pressure:	Not determined	Water Solubility:	Insoluble
Specific Gravity:	0.91	Vapor Density:	>1 (Air = 1)
Evaporation Rate:	>1 (butyl acetate =1)	VOC:	7.36 lb/gal, 882g/l (calculated)
Viscosity:	Not determined		

10. Stability and Reactivity

Chemical Stability:	This product is stable, under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	Avoid sources of ignition (sparks or flames). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat. Avoid high temperatures and exposure to strong oxidizing agents, acids, and bases. See section 5 for cautionary information on handling of the dried residue of this product.
Hazardous Decomposition	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition products may include the following materials: halogen gas and a potentially explosive substance, carbon dioxide, carbon monoxide, and oxides of nitrogen.

11. Toxicological Information

Acute Toxicity

Product/Ingredient Name	Test	Endpoint	Species	Result
Ethyl Acetate	-	LC50 Inhalation	Mouse	1500 ppm (4 hours)
	-	LD50 Dermal	Rabbit	>18,000 mg/kg
	-	LD50 Oral	Rat	5,620 mg/kg

Trichloroisocyanuric acid	-	LC50 Inhalation	Rat	> 50 mg/l (1 hour)
	-	LD50 Dermal	Rabbit	> 2,000 mg/kg
	-	LD50 Oral	Rat	406 mg/kg

Irritation / Corrosion -

Product/Ingredient Name	Test	Species	Result
Product	No data available		

Mutagenicity

Product/Ingredient Name	Test	Result
Product	No classification proposed	

Conclusion/ Summary: the weight of scientific evidence indicates that the components of this product are not genotoxic

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH, NTP or OSHA.

Reproductive Toxicity

Product/Ingredient Name	Test	Species	Maternal Toxicity	Fertility	Developmental Effects
Product	No classification proposed				

Teratogenicity

Product/Ingredient Name	Test	Species	Results
Product	No data available		

Potential Acute Health Effects

Inhalation: Vapor Harmful; may affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause irritation of nose, throat, and upper respiratory tract. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma. Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath.

Ingestion: Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

Skin Contact: Causes skin irritation. May cause skin dryness and sensitization by skin contact.

Eye Contact: May cause eye burns.

Potential Chronic Health Effects

Product/Ingredient Name	Test	Endpoint	Species	Results
Product	No data available			

General: Once sensitized, an allergic reaction may occur when subsequently exposed to very low levels

Target Organs: Adrenal gland, blood, body weight, brain, liver, thyroid. Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. Prolonged or repeated contact may result in dermatitis.

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental Effects: No known significant effects or critical hazards

Fertility Effects: No known significant effects or critical hazards

12. Ecological Information

Environmental Effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic Ecotoxicity

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
Ethyl Acetate	-	Acute EC50	48 hours static	Daphnia magna	560 mg/l
	-	Acute LC50	96 hours flow-through	Pimephales promelas (Fish)	220-250 mg/l
	-	Acute LC50	96 hours flow-through	Oncorhynchus mykiss (Fish)	484 mg/l
	-	Acute LC50	96 hours semi-static	Oncorhynchus mykiss (Fish)	352-500 mg/l
Trichloroisocyanuric acid	-	Acute EC50	48 hours	Daphnia magna	0.21 mg/l
	-	Acute EC50	48 hours static	Daphnia magna	0.16 - 0.18 mg/l
	-	Acute LC50	96 hours static	Lepomis macrochirus (Fish)	0.13 - 0.50 mg/l
	-	Acute LC50	96 hours static	Oncorhynchus mykiss (Fish)	0.06 - 0.11 mg/l

Persistence and Degradability

Product/Ingredient Name	Test	Period	Result
Product	Not determined		

Product/Ingredient Name	Aquatic half-life	Photolysis	Biodegradability
Product	Not determined		

Bioaccumulative potential

Product/Ingredient Name	Log P _{ow}	BCF	Potential
Product	Not determined		

Other adverse effects: No known significant effects or critical hazards

Other information: BOD5: Not Determined COD: Not Determined TOC: Not Determined

13. Disposal Consideration

Waste Disposal Method: Disposal of this products, solutions, and by-products should always comply with the requirements of environmental and waste disposal legislation and any regional or local authority requirements. Dispose of surplus, non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed on untreated to the sewer system unless this is complaint with all applicable laws and regulations. Incineration by an approved and licensed contractor is the most common disposal method. Packaging materials that and absorbents containing the product can typically be landfilled or incinerated. Contact local authorities to determine the proper means of disposal in your area.

14. Transport Information

DOT, 49CFR: Non-Bulk		UN/ID Number:	UN1133
Proper Shipping Name:	Adhesives		
Hazard Class:	3	Label:	Flammable liquid
		Packing Group:	PGII
IATA: Non-Bulk		UN/ID Number:	UN1133
Proper Shipping Name:	Adhesives		
Hazard Class:	3	Label:	Flammable liquid
		Packing Group:	PGII

15. REGULATORY INFORMATION

US Federal Regulations:

Occupational Safety and Health Act (OSHA): This product is a hazardous chemical under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Resource Conservation and Recovery Act (RCRA): This product is hazardous waste under RCRA (40 CFR 261).

SARA Title III: Section 304 - CERCLA: This product does not contain chemicals regulated under Section 304 as extremely hazardous substance(s) for emergency release notification ("CERCLA" List):

SARA Title III: Section 311/312 - Hazard Communication Standard (HCS): Fire Hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain toxic chemicals for routine annual Toxic Chemical Release Reporting under section 313 (40 CFR 372).

TSCA Section 8(b) - Inventory Status: All chemical(s) comprising this product are listed on the TSCA inventory.

TSCA Section 12(b) - Export Notification: This product does not contain chemicals which are subject to Section 12(b) export notification.

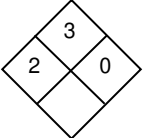
State Regulations:

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins

International Regulations:

WHMIS: Class B-2: Flammable Liquids: Flashpoint of -3.9°C (25°F)
Class D-2A: Material causing other toxic effects

16. OTHER INFORMATION

Hazardous Material Information System (HMIS) - USA			National Fire Protection Association (USA):	
Health	2			
Flammability	3			
Physical Hazards	0			
Personal Protection	C*			

*suggested minimum personal protection equipment. End user must determine appropriateness of these suggestions for their applications and usage conditions.

MSDS No: PrimaxP-20171024 **Reason Issued:** update
Prepared By: Chris Meyer **Approved By:** Chris Meyer Title: Vice President

NOTICE TO READER: While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF PRODUCTS FOR THE USER'S PARTICULAR PURPOSE(S).

THIS PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.