

## Section 1: Identification of the Substance/Mixture and the Company/Undertaking

Product Name: AR- 610I Industrial Urethane Enamel

PPI Tech  
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Email: info@polyproindustry.com Phone:  
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Product Use: For industrial use only.  
Not recommended for: Consumer use.

Color: Safety Blue, Safety Green, Safety  
Yellow. Safety Red, Sapa Gray, Hydro  
White and a wide range  
of colors possible

## Section 2: Hazard(s) Identification

### GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence
Aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

### GHS Hazards

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life

### GHS Precautions

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
P264	Wash thoroughly after handling.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required

P321	Specific treatment, see supplemental first aid information.
P362	Take off contaminated clothing and wash before reuse
P391	Collect spillage
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P370+P378	In case of fire: Use alcohol resistant foam, dry chemical, carbon dioxide (CO <sub>2</sub> ), dry sand for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

**Signal Word: Danger**



Unnecessary exposure to any chemical should be avoided. NOTICE--Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after applicable limits. Follow respirator manufacturer's directions for respirator use.

**Section 3: Composition/Information on Ingredients**

Chemical Name	CAS number	Weight Concentration %
Trade Secret	N/A	20.00% - 30.00%
Methyl n-amyl ketone	110-43-0	10.00% - 20.00%
Barium sulfate	7727-43-7	10.00% - 20.00%
Limestone	1317-65-3	5.00% - 10.00%
Methyl propyl ketone	107-87-9	5.00% - 10.00%
Talc	14807-96-6	5.00% - 10.00%
Methyl acetate	79-20-9	5.00% - 10.00%
Quartz	14808-60-7	1.00% - 5.00%
Trade Secret	N/A	1.00% - 5.00%
Nonhazardous Material	Nonhazardous Material	1.00% - 5.00%
Titanium dioxide	13463-67-7	1.00% - 5.00%
Trizinc diphosphate	7779-90-0	1.00% - 5.00%
Solvent naphtha, petroleum, light aromatic	64742-95-6	1.00% - 5.00%
Propylene glycol monomethyl ether acetate	108-65-6	1.00% - 5.00%
Stoddard solvent	8052-41-3	0.10% - 1.00%

## Section 4: First Aid Measures

**After Inhalation:** Immediately supply fresh air. Keep patient in restful and comfortable position for breathing. If required provide artificial respiration, although this may be dangerous. Consult doctor if symptoms persist.

**After Eye Contact:** Immediately rinse opened eye(s) for several minutes under running water. Use lukewarm water if possible. Remove contact lenses if worn. Get medical attention.

**After Skin Contact:** Remove contaminated clothing and shoes. Immediately wash with water and soap, rinse thoroughly. If skin irritation continues, consult a doctor.

**After Swallowing:** Immediately get medical attention. Call a poison center or physician. Rinse out mouth and then drink small amounts of water. Do not induce vomiting as this may be dangerous. Aspiration hazard if swallowed, can enter lungs and cause damage. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Maintain an open airway.

**Notes to Physician:** Treat symptomatically

## Section 5: Firefighting Measures

Flash Point: -10 C (14 F)

LEL: 1.00

UEL:

### Extinguishing Media:

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

### Special Hazards Arising from the Substance of Mixture:

Formation of toxic gases is possible during heating or in case of fire. Check flammability in section 2 of this sheet.

Mixture in sealed and heated containers may cause explosion hazard.

Spray booth filters, rags, and clean-up materials may spontaneously combust if exposed to air while drying.

### Hazardous Combustion Products may include the following:

Carbon oxides. Metal oxide(s). Nitrogen oxides.

Can form explosive vapor-air mixtures

Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

### Advice for Firefighters:

Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water.

Avoid spreading burning liquid with the water used for cooling purposes. Do not enter fire area without protective gear. Fight fire from safe distance or a protected location.

### Fire Equipment:

Wear self-contained respiratory protective device. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Wear protective clothing.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist, or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

### Environmental precautions:

Do not allow product to reach sewage system or any water source.  
 In case of seepage into the ground inform responsible authorities  
 Prevent from spreading (e.g. by damming-in or oil barriers).  
 Keep contaminated washing water and dispose of appropriately

**Methods and material for containment and cleaning up:**

Ensure adequate ventilation  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Dispose of contaminated material as waste.  
 Do not flush with water or aqueous cleansing agents.  
 Send for recovery or disposal in suitable receptacles according to local, state and federal regulations .

**Section 7: Handling and Storage**

**Handling:**

Apply proper ventilation, possibly combined with local exhaust.  
 Do not eat, smoke or drink during use.  
 For personal protection see Section 8.  
 Keep away from sources of ignition.  
 Keep material out of reach of children.  
 Use only explosion proof equipment.  
 Wash thoroughly after handling.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges by bonding and grounding product containers before and during material transfers.  
 Keep respiratory protective device available.  
 Spray booth filters, rags, and clean-up materials may spontaneously combust if exposed to air while drying. These materials should be stored in closed metal or water-filled containers.

**Conditions for safe storage, including any incompatibilities:**

**Storage:**

Keep away from sources of ignition - no smoking. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations.  
 Keep container tightly closed. Store out of direct sunlight, between 40 and 90F.

**Specific end use(s): FOR INDUSTRIAL USE ONLY!**

**Section 8: Exposure Controls/Personal Protection**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Trade Secret N/A	Not Established	Not Established	Not Established
Methyl n-amyl ketone 110-43-0	100 ppm TWA; 465 mg/m3 TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m3 TWA
Barium sulfate 7727-43-7	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	5 mg/m3 TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

Limestone 1317-65-3	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)
Methyl propyl ketone 107-87-9	200 ppm TWA; 700 mg/m <sup>3</sup> TWA	150 ppm STEL	NIOSH: 150 ppm TWA; 530 mg/m <sup>3</sup> TWA
Talc 14807-96-6	Not Established	2 mg/m <sup>3</sup> TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 2 mg/m <sup>3</sup> TWA (containing no Asbestos and <1% Quartz, respirable dust)
Methyl acetate 79-20-9	200 ppm TWA; 610 mg/m <sup>3</sup> TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 610 mg/m <sup>3</sup> TWA 250 ppm STEL; 760 mg/m <sup>3</sup> STEL
Quartz 14808-60-7	Not Established	0.025 mg/m <sup>3</sup> TWA (respirable fraction)	NIOSH: 0.05 mg/m <sup>3</sup> TWA (respirable dust)
Trade Secret N/A	Not Applicable	Not Applicable	Not Applicable
Nonhazardous Material Nonhazardous Material	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	Not Established
Trizinc diphosphate 7779-90-0	Not Established	Not Established	Not Established
Solvent naphtha, petroleum, light aromatic 64742-95-6	Not Established	Not Established	Not Established
Propylene glycol monomethyl ether acetate 108-65-6	Not Established	Not Established	Not Established
Stoddard solvent 8052-41-3	500 ppm TWA; 2900 mg/m <sup>3</sup> TWA	100 ppm TWA	NIOSH: 350 mg/m <sup>3</sup> TWA 1800 mg/m <sup>3</sup> Ceiling (15 min)

**Ventilation:**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits .

**Personal Protective Equipment/General Protective and Hygienic Measures:**

**Respiratory Protection:**

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

**Protective Gloves:**

Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

**Eye Protection:**

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

**Body Protection:**

Chemically resistance gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

**Contaminated Gear:**

Dispose of in accordance with official regulations.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b> Liquid <b>Physical State</b> Liquid <b>Boiling Range</b> 57 to 3000 °C <b>Coating VOC (as supplied)</b> 3.18 lb/gl	<b>Odor</b> Typical Solvent <b>Vapor Pressure</b> 102.1 mmHg <b>Specific Gravity (SG)</b> 1.270 <b>Coating VOC (EPA calculation)</b> 3.43 lb/gl
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**Section 10: Stability and Reactivity**

**Incompatibilities:**

Avoid contact with strong oxidizing agents.

**Hazardous Decomposition:**

Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, various hydrocarbons, etc.

Hazardous polymerization will not occur.

**Section 11: Toxicological Information**

**Mixture Toxicity**

Oral Toxicity LD50: 4,453mg/kg

**Component Toxicity**

110-43-0 Methyl n-amyl ketone  
Oral LD50: 1,600 mg/kg (Rat) Dermal LD50: 2,001 mg/kg (Rat)  
107-87-9 Methyl propyl ketone  
Oral LD50: 1,600 mg/kg (Rat) Inhalation LC50: 2,000 ppm (Rat)

**Routes of Entry:**

**Target Organs:**

**Eyes      Kidneys      Central Nervous System      Skin      Peripheral Nervous System**  
**Cardiovascular System      Respiratory System**

**Effects of Overexposure**

**Carcinogenicity:**

The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).



<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	Quartz	1 to 5%	Quartz: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
64742-95-6	Solvent naphtha, petroleum, light aromatic	1 to 5%	Solvent naphtha, petroleum, light aromatic: EU REACH: Present (P)
8052-41-3	Stoddard solvent	.1 to 1.0%	Stoddard solvent: EU REACH: Present (P)

## Section 12: Ecological Information

### Environmental Impact Statement/Toxicity:

**Aquatic toxicity:** No further relevant information available

**Persistence and degradability:** No further relevant information available

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Other adverse effect:** No further relevant information available

### Component Ecotoxicity

Methyl n-amyl ketone	96 Hr LC50 Pimephales promelas: 126 - 137 mg/L [flow-through]
Methyl propyl ketone	96 Hr LC50 Pimephales promelas: 1190 - 1290 mg/L [flow-through]
Talc	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]
Methyl acetate	96 Hr LC50 Pimephales promelas: 295 - 348 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 250 - 350 mg/L [static] 48 Hr EC50 Daphnia magna: 1026.7 mg/L 72 Hr EC50 Desmodesmus subspicatus: >120 mg/L
Trizinc diphosphate	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.09 mg/l - 96.0 h
Solvent naphtha, petroleum, light aromatic	96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L 48 Hr EC50 Daphnia magna: 6.14 mg/L
Propylene glycol monomethyl ether acetate	96 Hr LC50 Pimephales promelas: 161 mg/L [static] 48 Hr EC50 Daphnia magna: >500 mg/L

## Section 13: Disposal Considerations

### Waste treatment methods:

#### Recommendation:

Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Spray booth filters, rags, and clean-up materials may spontaneously combust if exposed to air while drying. These materials should be stored in closed metal or water-filled containers.

Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

### Contaminated Packaging:

Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

## Section 14: Transport Information

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Paint	UN1263	II	3
IATA	Paint	UN1263	II	3

## Section 15: Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Prop 65 - Chemicals Known to Cause Cancer:  
14808-60-7 Quartz

TSCA (Toxic Substances Control Act)

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
USA	Inventory - United States - Section 8(b) Inventory (TSCA)	Yes
Canada	DSL (Canadian Domestic Substance List)	Yes
Europe	EINECS (European Inventory of Existing Commercial Chemical Substances)	No
China	IECSC (Inventory of Chemical Substances Manufactured or Imported into China)	No
Australia	AICS (Australian Inventory of Chemical Substances and New Chemicals)	No
Phillipines	PICCS (Philippines Inventory of Chemicals and Chemical Substances)	No
Korea	KECL (Korean Existing Chemical and Chemical Substances)	No
New Zealand	NZIoC (New Zealand Inventory of Chemicals)	No
Japan	ISHL (Japanese Handbook of Existing and New Chemical Substances)	No

### EU Risk Phrases

### Safety Phrase

U.S. - SARA:

## Section 16: Other Information

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