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**SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION** (N/A)


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**Product Name:**                    **Hardnose Paint**  
**Chemical Formula:**                Mixture  
**Manufacturer Name:**                POR-15, Inc.  
**Address:**                                PO BOX 1235  
     MORRISTOWN, NJ 07962-1235  
  
 Emergency Telephones: 973-887-1999, 1-800-457-6715, 973-539-5631, 973-267-4813

**CHEMTREC Numbers:**

**For emergencies in the US, call CHEMTREC: 800-424-9300**

**Revision Date:**                        07/02/2008  
**Trade Names:**                         Accelerator/Hardener  
     MSDS Name: Hardnose Paint

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**SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS** : (N/A)


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Ingredient Name	CAS#	Ingredient Percent
Aromatic Solvent	68333-23-3	
OSHA PEL TWA:	100	
ACGIH TLV TWA:	100	
EC Index Number:	1	
1,6-Hexamethylene Diisocyanate based Polyisocyanate	28182-81-2	
OSHA PEL TWA:	Not Established	
ACGIH TLV TWA:	.005 ppm	
EC Index Number:	1	
Ethyl 3-ethoxypropionate	763-69-9	
OSHA PEL TWA:	Not Established	
ACGIH TLV TWA:	Not Established	
EC Index Number:	1	
Xylene	130-20-7	Optional: < 1%
OSHA PEL TWA:	200 ppm	
ACGIH TLV TWA:	100 ppm	
EC Index Number:	1	
Other Exposure Guidelines:	100 ppm MSHA	
N-Butyl Acetate	123-86-4	In mix: 16%
EC Index Number:	1	
Naphtha Petroleum	64742-95-6	In mix: 22%
EC Index Number:	1	

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PM Acetate		1108-65-6	In mix: 13%
EC Index Number:	1		
Aliphatic Petroleum Distillates		8052-41-3	In mix: 16%
EC Index Number:	1		
Titanium Dioxide		13463-67-7	In mix: 14%
EC Index Number:	1		
Oil Modified Polyurethane		Proprietary	In mix: 10%
EC Index Number:	1		
Isophorone Diisocyanate		4098-71-9	In mix: 9%
EC Index Number:	1		

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### SECTION 3 : HAZARDS IDENTIFICATION

: (N/A)

#### Applies to All Ingredients :

##### Potential Health Effects:

Eyes-severe irritation; tearing skin, discoloration-drying; breathing-irritation, dizziness, unconsciousness (for solvent). For isocyanates, coughing, irritation of mucous membranes and respiratory tract.

##### Eye Contact:

HUMAN EFFECTS OF OVEREXPOSURE: Liquid, vapors, or aerosols are irritating to the eyes and can cause lachrymation (tearing effect). Corneal damage can occur; however, indications are that the damage is reversible and does not result in permanent injury.

##### Skin Contact:

Slight to moderate irritation; skin sensitizer in guinea pigs. No conclusive evidence has been developed to indicate that Glisten PC is carcinogenic, teratogenic or that it causes reproductive effects in animals or humans. Active resin in Glisten PC has been reported by NIOSH to be mutagenic to Salmonella Typhimurium bacteria in the presence of a mammalian liver activation system. There is not full agreement in the scientific community on the significance of these Ames test results and their relationship to human safety in assessing the risk of cancer in man.

##### Inhalation:

HUMAN EFFECTS OF OVEREXPOSURE: Glisten PC reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis.

HUMAN EFFECTS OF OVEREXPOSURE: Inhalation of Glisten PC vapors in concentrations above 0.02 ppm can produce irritation of the mucous membranes in the respiratory tract, running nose, sore throat, productive cough and a reduction of lung function. Extensive exposures to concentrations well above the TLV could lead to bronchitis, bronchial spasm and pulmonary edema. These effects are usually reversible. However, due to low volatility, high exposures are not anticipated except if the material is overheated or sprayed as an aerosol into the air. Hypersensitivity pneumonitis has also been reported. Another type of response is hyperreactivity or hypersensitization. Persons with a preexisting unspecific bronchial hyperreactivity or persons with a specific isocyanate hypersensitivity (as a result of previous repeated overexposure or a single large dosage) will respond to small isocyanate concentrations at levels well below the TLV of 0.02 ppm. Symptoms could be immediate or delayed and include chest tightness, respiratory distress or asthmatic attack.

##### Ingestion:

HUMAN EFFECTS OF OVEREXPOSURE: Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract. However, it is not considered a common occupational route of exposure.

THRESHOLD LIMIT VALUE: For isocyanates, 0.02 ppm; for solvent, 200 ppm

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**SECTION 4 : FIRST AID MEASURES**

: (N/A)

<b>Eye Contact:</b>	Flush with clean, lukewarm water (low pressure) for at least 15 min., occasionally lifting eyelids; obtain medical attention.
<b>Skin Contact:</b>	Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before re-use.
<b>Inhalation:</b>	Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.
<b>Ingestion:</b>	Do not induce vomiting. Give 250 ml of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

[To Top of page](#)**SECTION 5 : FIRE FIGHTING MEASURES**

: (N/A)

<b>Flash Point:</b>	124 deg F, 51 deg C
<b>Flash Point Method:</b>	TCC
<b>Upper Flammable or Explosive Limit:</b>	7%
<b>Lower Flammable or Explosive Limit:</b>	1%
<b>Auto Ignition Temperature:</b>	475 deg F, 246 deg C
<b>Extinguishing Media:</b>	Foam, CO2, Dry Chemical, Sand.
<b>Hazardous Combustion Byproducts:</b>	COMBUSTIBLE.
<b>Fire Fighting Instructions:</b>	Use of self-contained breathing apparatus is recommended for fire fighters (as for all paints). Avoid spreading burning liquid with water for cooling purposes. Keep work areas free of hot metal surfaces and other sources of ignition.
<b>Unusual Fire Hazards:</b>	Use of self-contained breathing apparatus is recommended for fire fighters (as for all paints). Avoid spreading burning liquid with water for cooling purposes. Keep work areas free of hot metal surfaces and other sources of ignition. DOT HAZARD CLASS: Non-Regulated  FRT CLASS BULK: Isocyanate

[To Top of page](#)**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

: (N/A)

<b>Spill Cleanup Measures:</b>	Eliminate source of ignition of vapors, wear protective clothing while cleaning up; absorb on sand, clay, or absorbent material.
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[To Top of page](#)**SECTION 7 : HANDLING and STORAGE**

: (N/A)

<b>Storage:</b>	Store in tightly closed container. At maximum storage temperatures noted, material may slowly polymerize without hazard. Ideal storage temperature range is 50-81 deg F (10 deg-27 deg C).  STORAGE TEMPERATURE (min/max): 32 deg F (0 deg C)/122 deg F (50 deg C) AVERAGE SHELF LIFE: 12 months @ 77 deg F (25 deg C)
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[To Top of page](#)**SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION**

: (N/A)

<b>Ventilation System:</b>	Ventilation as required to maintain air concentrations below TLV's. If material is
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	spray-applied, ventilation should be provided and air supplied respirators worn. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Use in well-ventilated areas only. Have adequate general exhaust.
<b>Skin Protection Description:</b>	Chemical-resistant gloves. Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered to a minimum.
<b>Hand Protection Description:</b>	PROTECTIVE GLOVES: Solvent protective gloves.
<b>Eye/Face Protection:</b>	Safety glasses with side shields, splash goggles or face shield. Contact lenses should not be worn. Goggles or face mask.
<b>Respiratory Protection:</b>	Use respirator that is recommended or approved for use in isocyanate containing environments (air purifying or fresh air supplied). Consider type of application and environmental concentrations. In spray applications you must protect against exposure to both vapor and spray mist. An air-supplied respirator is strongly recommended for spray application. Observe OSHA regulations for respirator use 29 CFR, 1910.134. NIOSH/MSHA approved respirator.
<b>Other Protective:</b>	Self-contained breathing apparatus if threshold limit is exceeded.
<b>Exposure Limits:</b>	THRESHOLD LIMIT VALUE: For isocyanates, 0.02 ppm; for solvent, 200 ppm

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## SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)

<b>Vapor Pressure:</b>	5.9 PSIA @ 163*
<b>Vapor Density:</b>	(Air = 1) 3.70
<b>Flash Point:</b>	124 deg F, 51 deg C
<b>Flash Point Method:</b>	TCC
<b>Auto Ignition Temperature:</b>	475 deg F, 246 deg C
<b>Upper Explosive Limit:</b>	7%
<b>Lower Explosive Limit:</b>	1%
<b>Boiling Point:</b>	284 deg F
<b>Specific Gravity:</b>	(Water = 1) 1.02
<b>Percent Volatile:</b>	BY VOLUME: 26%
<b>Volatile Organic Compound Content:</b>	For Hard Nose Paint Light Gray: 502 grams per liter For Hard Nose Paint Black: 508 grams per liter For Hard Nose Paint Dark Red: 517 grams per liter For Hard Nose Paint Orange: 533 grams per liter For Hard Nose Paint Dark Yellow: 548 grams per liter For Hard Nose Paint Beige: 538 grams per liter For Hard Nose Paint Dark Blue: 519 grams per liter For Hard Nose Paint Light Red: 540 grams per liter For Hard Nose Paint Light Yellow: 541 grams per liter For Hard Nose Paint Dark Gray: 524 grams per liter For Hard Nose Paint Brown: 522 grams per liter For Hard Nose Paint Light Green: 525 grams per liter For Hard Nose Paint Light Blue: 513 grams per liter For Hard Nose Paint Dark Green: 534 grams per liter For Hard Nose Paint Violet: 520grams per liter

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## SECTION 10 : STABILITY and REACTIVITY

: (N/A)

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Temperatures below 32 deg F (0 deg C) or above 122 deg F (50 deg C).
<b>Hazardous Polymerization:</b>	Will not occur under normal conditions.
<b>Hazardous Decomposition Products:</b>	(Typical of all paints): By fire, carbon dioxide, CO, oxides of nitrogen, traces of HCN, and elements unknown. TO MAINTAIN FRESHNESS: Avoid contact with water, alcohols, amines, strong bases, metal compounds or surface active materials.

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

: (N/A)

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**SECTION 12 : ECOLOGICAL INFORMATION**

: (N/A)

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

: (N/A)

**Waste Disposal:** Dispose of in accordance with local, state, and federal regulations. Incineration is preferred. Decontaminate empty containers.

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**SECTION 14 : TRANSPORT INFORMATION**

: (N/A)

**DOT Hazard Class:** Non-Regulated  
FRT CLASS BULK: Isocyanate

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**SECTION 15 : REGULATORY INFORMATION**

: (N/A)

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**SECTION 16 : ADDITIONAL INFORMATION**

: (N/A)

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