WorldClear European Technology Activators  
Fast (8954), Normal (8974), Slow (8994), Extreme Hot (8995)

**Section 1: Product Identification**
Product Identification: Activator  
OSHA Hazard Class: Flammable Liquid  
DOT Shipping Class: Paint Related Materials UN1263  
Hazardous Materials Information: See Section X

**Section 2: Hazardous Ingredients**

<table>
<thead>
<tr>
<th>CAS</th>
<th>INGREDIENT</th>
<th>VAPOR PRESSURE 20ºC (MMHg)</th>
<th>SARA 313 REPORT</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>STEL</th>
<th>CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>28182-81-2</td>
<td>Aliphatic Polyisocyanate Resin</td>
<td>Unknown</td>
<td>No</td>
<td>.5mg/m³(S)</td>
<td>N/E</td>
<td>1.0mg/m³*</td>
<td>----</td>
</tr>
<tr>
<td>123-86-4</td>
<td>Butyl Acetate</td>
<td>8.40</td>
<td>No</td>
<td>150 ppm</td>
<td>150 ppm</td>
<td>200 ppm*</td>
<td>----</td>
</tr>
<tr>
<td>98-56-6</td>
<td>Cholorobenzotrifluoride</td>
<td>0.29</td>
<td>No</td>
<td>N/E</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>763-69-6</td>
<td>Ethyl 3-Ethoxy Propionate</td>
<td>1.10</td>
<td>No</td>
<td>N/E</td>
<td>----</td>
<td>50 ppm</td>
<td>----</td>
</tr>
<tr>
<td>822-06-0</td>
<td>Hexamethylene Diisocyanate Monomer</td>
<td>Unknown</td>
<td>Yes</td>
<td>5 ppb</td>
<td>5 ppb</td>
<td>1.0mg/m³*</td>
<td>----</td>
</tr>
<tr>
<td>112-07-2</td>
<td>2-Butoxy Ethyl Acetate</td>
<td>0.29</td>
<td>No</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
<td>----</td>
</tr>
<tr>
<td>4098-71-9</td>
<td>Isophorone Diisocyanate Resin</td>
<td>N/A</td>
<td>No</td>
<td>5 ppb</td>
<td>5 ppb</td>
<td>1.0 mg/m³*</td>
<td>----</td>
</tr>
<tr>
<td>110-43-0</td>
<td>Methyl Amyl Ketone</td>
<td>2.10</td>
<td>No</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>50 ppm</td>
<td>----</td>
</tr>
<tr>
<td>108419-32-5</td>
<td>Oxo-Octyl Acetate</td>
<td>N/A</td>
<td>No</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent 100</td>
<td>11.00</td>
<td>No</td>
<td>50 ppm</td>
<td>50 ppm</td>
<td>150 ppm</td>
<td>----</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>36.00</td>
<td>Yes</td>
<td>100 ppm</td>
<td>50 ppm</td>
<td>150 ppm</td>
<td>200 ppm**</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene (Note A)</td>
<td>25.00</td>
<td>Yes</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>150 ppm</td>
<td>200 ppm**</td>
</tr>
</tbody>
</table>

* Denotes 15-minutes / ** Denotes 10-minutes / N/E = Not Established / N/A = Not Applicable

Note A: Technical grade Xylene contains 18-20% Ethylbenzene (100-41-4), which has 100ppm PEL, 100ppm TLV, 125ppm STEL, and is subject to the reporting requirements of Section 313 of Sara Title III. See Section 10 for specific ingredients and SARA 313 reportable wt % data.

**Section 3: Physical Data**

- **Boiling Range:** 230°F - 350°F  
- **Evaporation Rate:** Slower than Ether  
- **Solubility in H2O:** Slightly Miscible  
- **Vapor Density:** Heavier than Air  
- **Volatilite (%) by Volume:** 66.50 – 68.50%  
- **Volatili ti % by Weight:** 60.30 – 61.80%  
- **Weight Per Gallon:** 7.94 – 8.11 lbs/gallon
Section 4: Fire and Explosion Hazard Data

**Flash Point:** see section X.

**Flammable Limits:** .8% - 13%

**Extinguishing Media:** Water Spray (for containment), Foam, Carbon Dioxide, Dry Chemical.

**Special Fire Fighting Procedures:** Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fogging nozzles may be used to cool closed containers to prevent pressure build up preventing rupturing. Do not use direct water stream on combustible or flammable liquid fires.

**Unusual Fire and Explosion Hazards:** When heated above the defined flash points, these solvents emit flammable vapors, which when mixed with air, can burn or be explosive when exposed to any ignition source. Fine mists or spray may be flammable at temperatures below the flash point.

Section 5: Health Hazard Data

**General Effects:**

**If Ingested:**
Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of the ingredients available.

**If Inhaled:**
May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist of this product. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

**If Skin or Eye Contact:**
May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15-minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

**Specific Effects:**

**Aliphatic PolyIsocyanate Resin, Hexamethylene Diisocyanate, and Isophorone Diisocyanate Resin:** Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

**Solvent 100:** Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in liver tumors.

**Butyl Acetate:** May cause abnormal liver function.

**Toluene:** Continuous recurrent overexposure may cause liver or kidney damage. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. **Warning:** This chemical is known to the State of California to cause birth defects or other reproductive harm.

**Xylene:** High concentrations have caused embryo toxic effects in laboratory animals. Reoccurring overexposure may cause liver or kidney damage. Can be absorbed through the skin in harmful amounts.

Section 6: Reactivity Data

**Stability:** Stable

**Incompatibility (Materials to Avoid):** None reasonably foreseeable.

**Hazardous Decomposition Products:** CO, CO2, Smoke.

**Hazardous Polymerization:** Will not occur.
Section 7: Spill or Leak Procedures
Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear a properly fitted
vapor/particulate respirator (NIOSH/MSHA TC-23C). Confine and remove with inert absorbent.

Waste Disposal Method:
Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state,
and local requirements. Do not incinerate in closed containers.

Section 8: Special Protection Information
Respiratory:
Do not breathe vapors or mists. Wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C) or equivalent while
mixing activator with any paint or clear, during application and until all vapors and spray mists are exhausted. Individuals
with a history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product. Do
not permit anyone without protection in the painting area. Follow the respirator manufacturer’s directions for respirator use.

Ventilation:
Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

Protective Clothing:
Neoprene gloves and coveralls are recommended.

Eye Protection:
Desirable in all industrial situations. Include splashguards or side shields.

Section 9: Special Precautions
Precautions to be taken in handling and storing:
Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers
when pouring. Wash all exposed areas thoroughly after handling and before eating or smoking. Do not store above 120 ºF

Other Precautions:
Do not sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

Section 10: Other Information Product Specifications
For each product part number and chemical listing below, the chemicals that have weight percentages in parenthesis are
subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and 40 CFR
372.

WorldClear #8954 Fast Activator:
Aliphatic Polyisocyanate Resin, Butyl Acetate, Hexamethylene Diisocyanate Monomer, Isophorone Diisocyanate Resin,
Solvent 100, Toluene (16%).

Gallon Weight: 8.11 lbs.  Flash Point: 45°F  
Wt. % Solids: 39.70  Material VOC: 4.89 lbs/gallon  
Vol. % Solids: 33.50  Coating VOC: 4.89 lbs/gallon  
OSHA Storage: 1B  Solvent Density: 7.27 lbs/gallon

WorldClear #8974 Medium Activator:
Aliphatic Polyisocyanate Resin, Hexamethylene Diisocyanate Monomer (<0.4%), Isophorone Diisocyanate Resin, Butyl
Acetate, Xylene (25%), Methyl Amyl Ketone, Solvent 100.

Gallon Weight: 8.04 lbs.  Flash Point: 78°F  
Wt. % Solids: 38.91  Material VOC: 4.91 lbs/gallon  
Vol. % Solids: 32.50  Coating VOC: 4.91 lbs/gallon  
OSHA Storage: 1B  Solvent Density: 7.20 lbs/gallon

WorldClear #8994 Slow Activator:
Aliphatic Polyisocyanate Resin, Hexamethylene Diisocyanate Monomer (<0.4%), Butyl Acetate, Xylene (21%), Methyl Amyl
Ketone, 2-Butoxy Ethyl Acetate, Solvent 100, Oxo-Octyl Acetate.

Gallon Weight: 7.94 lbs.  Flash Point: 78°F  
Wt. % Solids: 38.47  Material VOC: 4.91 lbs/gallon  
Vol. % Solids: 31.50  Coating VOC: 4.91 lbs/gallon  
OSHA Storage: 1B  Solvent Density: 6.95 lbs/gallon
WorldClear #8995 Extreme Hot Temp Activator:
Aliphatic Polyisocyanate Resin, Hexamethylene Diisocyanate Monomer (<0.4%), Chlorobenzotrifluoride, Ethyl 3-Ethoxy Propionate, Methyl Amyl Ketone, Oxo-Octyl Acetate.

Gallon Weight: 8.03 lbs.  Flash Point: 102°F
Wt. % Solids: 37.80 Material VOC: 4.84 lbs/gallon
Vol. % Solids: 31.50 Coating VOC: 4.91 lbs/gallon
OSHA Storage: 1B Solvent Density: 7.27 lbs/gallon

Xylene: When present, it can be assumed 18-20% of the weight % reported is Ethylbenzene.
Flash Point: Determined by TCC, expressed in degrees Fahrenheit.
Coating VOC: $W_s - W_w - W_{EX} \div V_T - V_w - V_{EX}$ Represents VOC per EPA Method 24.
Material VOC: $W_s - W_w - W_{EX}$
Where: $W_s =$ total solvent weight $V_{EX} =$ volume of exempt solvent
 $W_w =$ weight of water $V_w =$ volume of water
 $W_{EX} =$ weight of exempt solvent $V_T =$ total volume

WARNING: KEEP THIS AND ALL PAINT RELATED PRODUCTS OUT OF THE REACH OF CHILDREN! The information contained in this MSDS is based on data from sources considered to be reliable but Painters Pride Products does not guarantee the accuracy or completeness thereof. Painters Pride Products urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire prevention as necessary or appropriate to use and understand the data in this MSDS.
Note: The data on this MSDS relates only to individual components and does not represent the end mixed product. Read all other component Material Safety Data Sheets.

END OF MSDS.