SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Akron Paint and Varnish
(dba APV Engineered Coatings)
1390 Firestone Parkway
Akron, Ohio 44301 USA

www.apvcoatings.com
Information Telephone: (800) 772-3452
Facsimile: (330) 773-1028
Emergency Telephone: (330) 773-8911
CHEMTREC: (703) 527-3887

Product Code: J-0521-01
Product Name: HI HEAT ALUMINUM
Product Use: Paint
Not recommended for: Consumer Use

Section 2 - Hazards Identification

GHS Ratings

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquid</td>
<td>3</td>
<td>Flash point &gt;= 23°C and &lt;= 60°C (140°F)</td>
</tr>
<tr>
<td>Skin corrosive</td>
<td>2</td>
<td>Reversible adverse effects in dermal tissue, Draize score: &gt;= 2.3 &lt; 4.0 or persistent inflammation</td>
</tr>
<tr>
<td>Eye corrosive</td>
<td>2B</td>
<td>Mild eye irritant: Subcategory 2B, Reversible in 7 days</td>
</tr>
<tr>
<td>Carcinogen</td>
<td>2</td>
<td>Limited evidence of human or animal carcinogenicity</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>1</td>
<td>Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C.</td>
</tr>
</tbody>
</table>

GHS Hazards

- H226 Flammable liquid and vapour
- H304 May be fatal if swallowed and enters airways.
- H315+H320 Causes skin and eye irritation
- H351 Suspected of causing cancer.

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/light/manufacturer/equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P264 Wash contact area thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P281 Use personal protective equipment as required
- P321 Specific treatment (see supplemental first aid instruction on this label)
- P331 Do NOT induce vomiting
- P362 Take off contaminated clothing and wash before reuse
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
- P302+P352 IF ON SKIN: wash with plenty of water.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse SKIN with water [or shower].
- P305+P351+P338 IF IN EYES: Rinse cautiously 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.
Section 3 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>1330-20-7</td>
<td>51.00%</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>5.00%</td>
</tr>
<tr>
<td>Isopropylbenzene</td>
<td>98-82-8</td>
<td>0.10% - 1.00%</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

INHALATION - Move affected person to fresh air, rest in a half upright position, and loosen clothing. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical advice after significant exposure.

EYE CONTACT - Flush with large amounts of water for at least 15 minutes. Lift eyelids occasionally. Get prompt medical attention.

SKIN - Wash thoroughly with soap and water immediately. Remove all contaminated clothing immediately. Seek medical advice if irritation persists.

INGESTION - Seek medical advice. The decision to induce vomiting or not must be made by a physician after careful consideration of all materials ingested. Risk of aspiration into lungs.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media
Carbon Dioxide---Dry Chemical---Foam---Water Fog
Use water for cooling material stored in vicinity of fire.

Explosion Hazards
Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges.

CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode. 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.

**Hazardous Combustion Products**

N/A

**Recommended Fire Equipment**

Use self-contained breathing apparatus with a full-face piece operated in a pressure-demand or other positive pressure mode. Wear protective clothing.

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**Section 6 - Accidental Release Measures**

**Non-emergency personnel:** Evacuate and isolate the area and prevent access. Remove ignition sources. No flares, smoking or flames in hazard area. Notify management. Avoid breathing vapor or mist and put on protective equipment. Control source of the leak. Ventilate.

**Emergency responders:** See section 8 for any specialized clothing recommendations. Also reference the information for non-emergency personnel

**Environmental precautions:** Prevent further leakage or spillage if possible. Do not allow the material to spread to drains, sewers, water supplies, or soil. Contact APV (330-773-8911) for assistance and advice.

**Small Spill:** Stop leak if possible and move containers from the spill area. Water soluble: dilute with water and mop up. Water Insoluble: Cover spill area with a suitable absorbent inert material (Kitty Litter, Oil-Dri, etc.) and dispose of in an appropriate metal waste container. Dispose of material through a licensed waste disposal contractor.

**Large Spill:** Stop leak if possible and move containers from the spill area. Approach release from upwind. Contain spillage and with non-combustible absorbent material and place in appropriate disposal container according to local regulations. Dispose of material through a licensed waste disposal contractor. Report spill to appropriate governing agencies if applicable.

APV requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person have knowledge of the release.

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**Section 7 - Handling and Storage**

**Precautions for Safe Handling**

Keep away from food, drink and heat. Keep away from sources of ignition. No smoking. Do not breathe vapor. Avoid contact with skin and eyes. Never use pressure to empty. Take precautionary measures against static discharges.

Storage temperature-

- Minimum: do not freeze
- Maximum: 40°C (104°F)
# Section 8 - Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers) 1330-20-7</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>150 ppm STEL 100 ppm TWA</td>
<td>Not Established</td>
</tr>
<tr>
<td>Ethylbenzene 100-41-4</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>20 ppm TWA</td>
<td>NIOSH: 100 ppm TWA; 435 mg/m³ TWA 125 ppm STEL; 545 mg/m³ STEL</td>
</tr>
<tr>
<td>Aluminum 7429-90-5</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>1 mg/m³ TWA (respirable fraction)</td>
<td>NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light 64742-47-8</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Isopropylbenzene 98-82-8</td>
<td>50 ppm TWA; 245 mg/m³ TWA</td>
<td>50 ppm TWA</td>
<td>NIOSH: 50 ppm TWA; 245 mg/m³ TWA</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other controls to keep air containment concentration below current applicable OSHA permissible exposure limit or ACGIH TLV limit, and volatiles below lower explosive limit. Heavy solvent vapors should be removed from the lower levels of area, and all ignition sources (non-explosion proof equipment) should be eliminated if flammable mixtures will be encountered. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product. For baking finishes - vent vapors emitted on heating.

**Environmental Controls:** Emissions should comply with environmental protection legislation.

**Individual Protection Measures:**

**Hygiene measures:** Wash hands, forearms, etc. after handling chemical products, before eating, smoking, and using the lavatory, and the end of the work period. Use appropriate techniques when removing potentially contaminated clothing and wash before reusing. Know the locations of eyewash and safety showers.

**Respiratory Protection:** Provide adequate ventilation to keep exposure below permissible limits. If a risk assessment deems necessary, operator is to use a properly fitted, air purifying or supplied air respirator. Respirator selection must be based on known/ anticipated exposure levels, the hazards of the product, and the safe working limits of the respirator.

**Skin and Body Protection:** Wear chemical resistant gloves (nitrile) and paint suits when necessary, based on risk assessment. The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material. PPE for the body should be selected based on the risks of the task being performed and approved by a specialist. Appropriate footwear should also be approved.

**Eye/Face Protection:** Wear approved chemical safety goggles where exposure to vapor or contact with eyes is possible. Eye wash stations should also be made available. If inhalation hazard exists, a risk assessment will determine if a full face respirator may be required.
Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity: Not determined</td>
<td></td>
</tr>
<tr>
<td>% Weight Solids: 28.91</td>
<td></td>
</tr>
<tr>
<td>VOC Wt/Gal (wet): 5.77</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (SG): 0.974</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold: Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point: 136°C</td>
<td></td>
</tr>
<tr>
<td>LEL/UEL: 1% - 7%</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate (nBuAc=1): Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Density: N/A</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: Not determined</td>
<td></td>
</tr>
<tr>
<td>pH: N/A</td>
<td></td>
</tr>
<tr>
<td>% Volume Solids: 21.02</td>
<td></td>
</tr>
<tr>
<td>U.S. VOC Wt/Gal (wet): 5.77</td>
<td></td>
</tr>
<tr>
<td>Odor: Solvent</td>
<td></td>
</tr>
<tr>
<td>Color: Clear</td>
<td></td>
</tr>
<tr>
<td>Flash Point: 81°F,27°C</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature: 432°C</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure: N/A</td>
<td></td>
</tr>
<tr>
<td>Freezing Point: Not determined</td>
<td></td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Stability and reactivity profile
This material is considered stable
Hazardous polymerization will not occur.

The following materials should be avoided in contact with the mixture
Oxidizing agents
Hazardous decomposition products
N/A

Section 11 - Toxicological Information

Mixture Toxicity
Oral Toxicity LD50: 3,855mg/kg
Dermal Toxicity LD50: 4,305mg/kg
Inhalation Toxicity LC50: 38mg/L

Component Toxicity
1330-20-7 Xylenes (o-, m-, p- isomers)
Oral LD50: 3,500 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 29 mg/L (Rat)
100-41-4 Ethylbenzene
Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)

LC50 and LD50 toxicity for this product are merely estimates and have yet to be determined. For individual component ecotoxicity, please refer to Section 11.

Possible Routes of Entry
Inhalation Skin Contact Eye Contact Ingestion

Potential Target Organs
Blood Eyes Central Nervous System Skin Respiratory System

Effects of Overexposure
Not Available

The following components are possible carcinogens
*Materials labeled a carcinogen in dust form are supplied in solution, thus eliminating the hazard.
### Section 12 - Ecological Information

**Mixture Ecotoxicity**
Toxicity- Do not release into environment. May cause long term adverse effects.
Persistence and degradability- N/A
Bioaccumulative potential- N/A
Mobility in Soil- N/A

#### Component Ecotoxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>96 Hr LC50 Pimephales promelas</th>
<th>96 Hr LC50 Oncorhynchus mykiss</th>
<th>96 Hr LC50 Lepomis macrochirus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xylenes (o-, m-, p- isomers)</td>
<td>13.4 mg/L (flow-through)</td>
<td>11.0 - 18.0 mg/L (static)</td>
<td>4.2 mg/L (semi-static)</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>7.55 - 11 mg/L (flow-through)</td>
<td>7.55 - 11 mg/L (flow-through)</td>
<td>32 mg/L (static)</td>
</tr>
<tr>
<td>Petroleum distillates,</td>
<td>45 mg/L (flow-through)</td>
<td>2.2 mg/L (static)</td>
<td>2.4 mg/L (static)</td>
</tr>
<tr>
<td>hydrotreated light</td>
<td>6.04 - 6.61 mg/L (flow-through)</td>
<td>4.8 mg/L (flow-through)</td>
<td>2.7 mg/L (semi-static)</td>
</tr>
</tbody>
</table>

#### Section 13 - Disposal Considerations

Dispose of in accordance with federal, state and local regulations. Controlled incineration is recommended for disposal of unused product. Prevent contamination of soil, drains and surface waters. Dispose of large containers to a licensed reconditioner. Dispose of small containers in compliance with local regulations.

#### Section 14 - Transport Information
<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>PAINT</td>
<td>UN1263</td>
<td>III</td>
<td>3</td>
</tr>
<tr>
<td>DOT - LQ</td>
<td>PAINT</td>
<td>UN1263</td>
<td>III</td>
<td>3</td>
</tr>
<tr>
<td>IATA</td>
<td>PAINT</td>
<td>UN1263</td>
<td>III</td>
<td>3</td>
</tr>
<tr>
<td>IMDG</td>
<td>PAINT</td>
<td>UN1263</td>
<td>III</td>
<td>3</td>
</tr>
<tr>
<td>IMDG - LQ</td>
<td>PAINT</td>
<td>UN1263</td>
<td>III</td>
<td>3</td>
</tr>
</tbody>
</table>

**Section 15 - Regulatory Information**

The following chemicals are listed in California Title 8 CCR Sections as Hazardous Substances:
- 98-82-8 Isopropylbenzene
- 7429-90-5 Aluminum
- 100-41-4 Ethylbenzene
- 1330-20-7 Xylenes (o-, m-, p- isomers)

The following chemicals are listed in California Title 8 CCR Sections 5200-5220 as Carcinogens.
- None

The following chemicals are listed in California Title 8 CCR Section 5203 as Carcinogens.
- None

The following chemicals are listed in California Title 8 CCR Section 5209 as Carcinogens.
- None

The following chemicals are listed in the EU-Substances of Very High Concern (2008/67/ED) (SVHC):
- None

The following chemicals are listed in the EU-Restriction of the use of certain Hazardous Substances (2011/65/EU) (RoHS):
- None

The following chemicals are included in the Global Automotive Declarable Substance List (GADSL):
- None

The following substances are required for notification by the Japanese Enforcement Order of the Industrial Safety and Health Law (ISHL):
- 98-82-8 Isopropylbenzene
- 64742-47-8 Petroleum distillates, hydrotreated light
- 7429-90-5 Aluminum
- 100-41-4 Ethylbenzene
- 1330-20-7 Xylenes (o-, m-, p- isomers)

The following chemicals are listed on the Massachusetts Right-to-Know Hazardous Substances List.
- 98-82-8 Isopropylbenzene
- 7429-90-5 Aluminum
- 100-41-4 Ethylbenzene
- 1330-20-7 Xylenes (o-, m-, p- isomers)

The following chemicals are listed on the New Jersey Right-to-Know Hazardous Substances List.
- 98-82-8 Isopropylbenzene
- 7429-90-5 Aluminum
- 100-41-4 Ethylbenzene
- 1330-20-7 Xylenes (o-, m-, p- isomers)
The following chemicals are listed on the Pennsylvania Right-to-Know Hazardous Substances List.

98-82-8  Isopropylbenzene
7429-90-5  Aluminum
100-41-4  Ethylbenzene
1330-20-7  Xylenes (o-, m-, p- isomers)

The following chemicals are listed by the State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

98-82-8  Isopropylbenzene  0.1 to 1.0 % Carcinogen
100-41-4  Ethylbenzene  10 to 20 % Carcinogen

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) requires certain facilities manufacturing, processing, or otherwise using listed toxic chemicals to report their environmental releases of such chemicals annually. The following chemicals are listed:

98-82-8  Isopropylbenzene  0.1 to 1.0 %
7429-90-5  Aluminum  10 to 20 %
100-41-4  Ethylbenzene  10 to 20 %
1330-20-7  Xylenes (o-, m-, p- isomers)  51 %

The following chemicals are listed in EPCRA (SARA) Section 313: Persistent, Bioaccumulative, and Toxic Chemicals (PBT)
- None

The following chemicals are listed under EPCRA (SARA) Section 313: Toxic Release Inventory (TRI)
- None

Under Section 12(b) of the Toxic Substances Control Act (TSCA), exporters may need to notify the U.S. Environmental Protection Agency if they export or intend to export a product containing a chemical substance that is present on this list. The following substances are contained within this material:
- None

The following chemicals are listed as a Hazardous Air Pollutant under listed under the U.S. CAA (Clean Air Act)

98-82-8  Isopropylbenzene
100-41-4  Ethylbenzene
1330-20-7  Xylenes (o-, m-, p- isomers)

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Canadian Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Canadian Non-Domestic Substances List (NSDL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>REACH Registered or Pre-Registered Substances and Intermediates</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Japanese Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Japan Inventory of Industrial Safety and Health Law Substances (ISHL)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Korean Existing Chemical Inventory (KECI)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory of Chemicals (NZIoC)</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>USA</td>
<td>Toxic Substances and Control Act (TSCA)</td>
<td>No</td>
</tr>
</tbody>
</table>

**EU Risk Phrases**

Not Available

**Safety Phrase**

Not Available
Section 16 - Other Information

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

### Hazardous Material Information System (HMIS)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>1</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>G</td>
</tr>
</tbody>
</table>

### National Fire Protection Association (NFPA)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Instability</td>
<td>2</td>
</tr>
</tbody>
</table>

Legend:
- 0 = INSIGNIFICANT
- 1 = SLIGHT
- 2 = MODERATE
- 3 = HIGH

* = Chronic Health Hazard

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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Revision No: 2
Reviewer ID: apalmer

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