SAFETY DATA SHEET

1. Identification

Product identifier: #1744 SM ARNOLD ADHESION PROMOTER

Product Code: 06094 711353 604

Recommended use: Not available.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name: Quest Industrial Products, LLC.
Address: N92 W14701 Anthony Avenue
Menomonee Falls, WI 53051
United States

Telephone: Phone (262) 255-9500
Website: quest-ip.com
E-mail: info@quest-ip.com
Emergency phone number: Chemtrec Phone 800-424-9300

2. Hazard(s) identification

Physical hazards
Flammable aerosols Category 1
Gases under pressure Liquefied gas

Health hazards
Acute toxicity, oral Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Reproductive toxicity (the unborn child) Category 2
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated exposure Category 1

Environmental hazards
Hazardous to the aquatic environment, acute hazard Category 2
Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards
Not classified.

Label elements

Signal word: Danger

Hazard statement: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement: Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response
If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
50.8% of the mixture consists of component(s) of unknown acute oral toxicity. 57.01% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 57.01% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYL ETHER</td>
<td>115-10-8</td>
<td>40 to &lt;50</td>
<td></td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>30 to &lt;40</td>
<td></td>
</tr>
<tr>
<td>ETHYL ACETATE</td>
<td>141-75-6</td>
<td>5 to &lt;10</td>
<td></td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>5 to &lt;10</td>
<td></td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>1 to &lt;5</td>
<td></td>
</tr>
</tbody>
</table>

Other components below reportable levels 10 to <20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
No adverse effects due to skin contact are expected. Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. No specific first aid measures noted.

Ingestion
Not likely, due to the form of the product. Rinse mouth. If vomiting occurs, keep head low so that stomach contents don’t get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed
May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information
IF exposed or concemed: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions
In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods
Use standard firefighting procedures and consider fire hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards
Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, fires, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surfaces is thoroughly dry. Do not out, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause sparks and become an ignition source. Secure cylinders in an upright position at all times, close all valves when not in use. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE (CAS 141-78-6)</td>
<td>PEL</td>
<td>1400 mg/m3</td>
</tr>
<tr>
<td>ETHYL BENZENE (CAS 100-41-4)</td>
<td>PEL</td>
<td>435 mg/m3</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>PEL</td>
<td>435 mg/m3</td>
</tr>
</tbody>
</table>

Material name: #1744 SM ARNOLD ADHESION PROMOTER
06094 711535 004 Version #: 01 Issue date: 04-25-2015
<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>Ceiling</td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE (CAS 141-78-6)</td>
<td>TWA</td>
<td>400 ppm</td>
</tr>
<tr>
<td>ETHYL BENZENES (CAS 100-41-4)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**US. NIOSH: Pocket Guide to Chemical Hazards**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE (CAS 141-78-6)</td>
<td>TWA</td>
<td>1400 mg/m³</td>
</tr>
<tr>
<td>ETHYL BENZENES (CAS 100-41-4)</td>
<td>STEL</td>
<td>545 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>125 ppm</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>STEL</td>
<td>435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>375 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**US. Workplace Environmental Exposure Level (WEEL) Guides**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYL ETHER (CAS 115-10-6)</td>
<td>TWA</td>
<td>1880 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ETHYL BENZENES (CAS 100-41-4)</td>
<td>0.15 g/g</td>
<td>Sum of mandelic acid and phenylglyoxylic acid</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>TOLUENE (CAS 108-88-3)</td>
<td>0.3 mg/g</td>
<td>o-Cresol, with hydrolysis of Toluene</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.03 mg/l</td>
<td>Toluene</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.02 mg/l</td>
<td>Toluene</td>
<td>Blood</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>XYLENE (CAS 1330-20-7)</td>
<td>1.5 g/g</td>
<td>Methylhippuric acids</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**

TOLUENE (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

TOLUENE (CAS 108-88-3) Skin designation applies.
Appropriate engineering controls

- Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**
  - Wear safety glasses with side shields (or goggles).

- **Skin protection**
  - **Hand protection**
    - Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
  - **Other**
  - Wear appropriate chemical resistant clothing.

- **Respiratory protection**
  - If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

- **Thermal hazards**
  - Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

- When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

- **Appearance**
  - **Physical state**: Liquid.
  - **Form**: Aerosol. Liquefied gas.
  - **Color**: Not available.
  - **Odor**: Not available.
  - **Odor threshold**: Not available.
  - **pH**: Not available.
  - **Melting point/freezing point**: -222.7 °F (-141.5 °C) estimated
  - **Initial boiling point and boiling range**: -12.68 °F (-24.82 °C) estimated
  - **Flash point**: -42.0 °F (-41.1 °C) estimated

- **Evaporation rate**: Not available.

- **Flammability (solid, gas)**: Not applicable.

- **Upper/lower flammability or explosive limits**
  - **Flammability limit - lower (%)**: 1.3 % estimated
  - **Flammability limit - upper (%)**: 27 % estimated
  - **Explosive limit - lower (%)**: Not available.
  - **Explosive limit - upper (%)**: Not available.

- **Vapor pressure**: 2513.16 hPa estimated

- **Vapor density**: Not available.

- **Relative density**: Not available.

- **Solubility(ies)**
  - **Solubility (water)**: Not available.

- **Partition coefficient (n-octanol/water)**: Not available.

- **Auto-ignition temperature**: 652 °F (350 °C) estimated

- **Decomposition temperature**: Not available.

- **Viscosity**: Not available.

Other information

- **Density**: 6.65 lbs/gal

- **Flammability class**: Flammable IA estimated
10. Stability and reactivity

Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Conditions to avoid
Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation
May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact
Causes skin irritation.

Eye contact
Causes serious eye irritation.

Ingestion
Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity
Harmful if swallowed. Narcotic effects.

Components

<table>
<thead>
<tr>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse</td>
<td>494 ppm, 15 Minutes</td>
</tr>
<tr>
<td></td>
<td>386 ppm, 30 Minutes</td>
</tr>
<tr>
<td>Rat</td>
<td>308.5 mg/l, 4 Hours</td>
</tr>
</tbody>
</table>

DIMETHYL ETHER (CAS 115-10-8)

ETHYL ACETATE (CAS 141-78-6)

Acute

Inhalation

LC50

Rat

LD50

Mouse

1500 ppm, 4 Hours

Rabbit

2500 ppm, 4 Hours

Rat

4000 ppm, 4 Hours

Oral

LD50

Mouse

0.44 g/kg

Rabbit

4.9 g/kg

Rat

11.3 ml/kg

5.6 g/kg
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>17800 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>3500 mg/kg</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>12124 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14.1 ml/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>5320 ppm, 8 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm, 24 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26700 ppm, 1 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12200 ppm, 2 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8000 ppm, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2.6 g/kg</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 43 g/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>3907 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6350 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>1590 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3523 - 8600 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization**
Not a respiratory sensitizer.

**Skin sensitization**
This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>2B Possibly carcinogenic to humans.</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>3 Not classifiable as to carcinogenicity to humans.</td>
</tr>
<tr>
<td>XYLENE (CAS 1330-20-7)</td>
<td>3 Not classifiable as to carcinogenicity to humans.</td>
</tr>
</tbody>
</table>

Not listed.

**Reproductive toxicity**
Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure**
May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHYL ACETATE (CAS 141-78-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>ETHYL BENZENE (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>XYLINE (CAS 1330-20-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Fish</td>
<td>LC50</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

- DIMETHYL ETHER: 0.1
- ETHYL ACETATE: 0.73
- ETHYL BENZENE: 3.15
- TOLUENE: 2.73
- XYLINE: 3.12 - 3.2

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1950</th>
</tr>
</thead>
</table>

Material name: #1744 SM ARNOLD ADHESION PROMOTER
UN proper shipping name: Aerosols, flammable, 2.1
Transport hazard class(es):
Class: Not available.
Subsidiary risk: -
Packing group: Not applicable.
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

IATA
UN number: UN1950
UN proper shipping name: Aerosols, flammable, 2.1
Transport hazard class(es):
Class: Not available.
Subsidiary risk: -
Packing group: Not applicable.
Environmental hazards: No.
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
Other information:
Passenger and cargo aircraft: Forbidden.
Cargo aircraft only: Forbidden.

IMDG
UN number: UN1950
UN proper shipping name: Aerosols, flammable, 2.1
Transport hazard class(es):
Class: Not available.
Subsidiary risk: -
Packing group: Not applicable.
Environmental hazards: Marine pollutant - No.
Emergency response: Not available.
Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established.

15. Regulatory information
US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA Hazardous Substance List (40 CFR 302.4):
- DIMETHYL ETHER (CAS 115-10-6) Listed.
- ETHYL ACETATE (CAS 141-78-6) Listed.
- ETHYLBENZENE (CAS 100-41-4) Listed.
- TOLUENE (CAS 108-88-3) Listed.
- XYLENE (CAS 1330-20-7) Listed.

SARA 304 Emergency release notification: Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA):
Hazard categories:
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance: Not listed.
SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>30 to &lt;40</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>5 to &lt;10</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>1 to &lt;5</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
- DIMETHYL ETHER (CAS 115-10-6)

Safe Drinking Water Act (SDWA)
- Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
  - TOLUENE (CAS 108-88-3) 6594
- Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
  - TOLUENE (CAS 108-88-3) 35 %WV
- DEA Exempt Chemical Mixtures Code Number
  - TOLUENE (CAS 108-88-3) 594

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11160)
- Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

US. Massachusetts RTK - Substance List
- DIMETHYL ETHER (CAS 115-10-6)
- ETHYL ACETATE (CAS 141-78-6)
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act
- DIMETHYL ETHER (CAS 115-10-6)
- ETHYL ACETATE (CAS 141-78-6)
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law
- DIMETHYL ETHER (CAS 115-10-6)
- ETHYL ACETATE (CAS 141-78-6)
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

US. Rhode Island RTK
- DIMETHYL ETHER (CAS 115-10-6)
- ETHYL ACETATE (CAS 141-78-6)
- ETHYLBENZENE (CAS 100-41-4)
- TOLUENE (CAS 108-88-3)
- XYLENE (CAS 1330-20-7)

US. California Proposition 65
- WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004
US - California Proposition 65 - CRT: Listed date/Developmental toxin
TOLUENE (CAS 108-88-3) Listed: January 1, 1991
US - California Proposition 65 - CRT: Listed date/Female reproductive toxin
TOLUENE (CAS 108-88-3) Listed: August 7, 2009

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</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 (EUNCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*"Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
*"No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 04-26-2015
Version #: 01
HMIS® ratings
- Health: 2*
- Flammability: 4
- Physical hazard: 0

NFPA ratings
- Health: 2
- Flammability: 4
- Instability: 0

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