SAFETY DATA SHEET

PRODUCT: PARTWELL CONTACT ADHESIVE TYPE 2

REF: AD0010

DATE OF ISSUE: 8th June 06

SUPPLIER: Partwell Cutting Technology Specialists
Bridge Works, Stanley Street, Blackburn, Lancs. BB1 3BW
Tel: 01254 671875    Fax: 01254 674823

COMPOSITION

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No</th>
<th>CAS-No</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>200-662-2</td>
<td>67-64-1</td>
<td>30 – 60%</td>
<td>F:R11 Xi R66 R67</td>
</tr>
<tr>
<td>Cyclopentane</td>
<td>206-016-6</td>
<td>287-92-3</td>
<td>1 – 5%</td>
<td>F:R11 R52/53</td>
</tr>
<tr>
<td>Heptane</td>
<td>205-563-8</td>
<td>142-82-5</td>
<td>10 – 30%</td>
<td>F:R11 Xn:R65 Xi R38 R67 N:50/53</td>
</tr>
<tr>
<td>Hexane Mixture of Isomers (Max 5% n- Hexane (203-777-6))</td>
<td></td>
<td></td>
<td>5 – 10%</td>
<td>F:R11 Xn:R65 Xi R38 R67 N:50/53</td>
</tr>
<tr>
<td>Methylcyclohexane</td>
<td>203-624-3</td>
<td>108-87-2</td>
<td>1 – 5%</td>
<td>F:R11 Xn:R65 Xi:R38 R67 N:R51/53</td>
</tr>
<tr>
<td>Rosin</td>
<td>232-475-7</td>
<td>8050-09-7</td>
<td>1 – 5%</td>
<td>R43</td>
</tr>
<tr>
<td></td>
<td>215-222-5</td>
<td>1314-13-2</td>
<td>&lt;1%</td>
<td>N:r50/53</td>
</tr>
</tbody>
</table>

HAZARD IDENTIFICATION

Irritating to skin and eyes. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness. May cause sensitisation by skin contact.

HIGHLY FLAMMABLE


ENVIRONMENT

The product contains a substance which is hazardous to aquatic organisms and which may cause long-term adverse effects in the aquatic environment (see section ECOLOGICAL INFO)

PHYSICAL AND CHEMICAL HAZARDS

The product is highly flammable and explosive vapours/air mixtures may be formed even at normal temperatures.
HUMAN HEALTH
Contains a substance/group of substances, which may cause harm to the unborn child. In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Irritating and degreasing to skin. Inhalation of vapour or mist may cause lung oedema.

FIRST AID MEASURES
INHALATION Remove to fresh air immediately. Get medical attention.
SKIN CONTACT: Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.
EYE: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open lids widely. If irritation persists; continue flushing during transport to hospital. Take along instructions.
INGESTION: Do not induce vomiting. Immediately rinse mouth and provide fresh air. Get medical help immediately.

FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA: Extinguish with alcohol resistance foam, carbon dioxide or dry powder. Do not use water jet as an extinguisher, as this will spread the fire.
SPECIAL FIRE FIGHTING PROCEDURES: Water spray should be used to cool the containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Solvents vapours may form explosive mixtures with air. HIGHLY FLAMMABLE
SPECIFIC HAZARDS: In case of fire, toxic gases may be formed.
PROTECTIVE MEASURES IN FIRE: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

ACCIDENTAL RELEASE MEASURES
PERSONNEL PRECAUTIONS: Do not smoke, use naked flames or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation use reparatory protection. Take precautionary measures against discharges. Use protective gloves, goggles and suitable protective clothing.
ENVIRONMENTAL PRECAUTIONS: Do not allow to enter drains, sewers or water courses.

CLEANING METHODS
Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth and other non-combustible material. Dispose as hazardous waste.

HANDLING PRECAUTIONS
USAGE PRECAUTIONS: Handle in well-ventilated areas, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Take precautions against static discharges. All transfer equipment must be proof, do not eat, drink or smoke when using the product. Do not use in confined spaces without adequate ventilation and/or respirator. Observe workplace exposure limits and minimize the risk of inhalation of vapours and mists.

STORAGE PRECAUTIONS
Do not store over heat sources or expose to high temperatures. Store in tightly closed original container in a cool, dry and well ventilated place. Store in closed original container at temperatures between 5°C and 30°C. Protect from freezing and direct sunlight. Keep separate from food, feed stuffs, fertilizers and other sensitive material.

STORAGE CLASS: Flammable liquid storage

EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Name</th>
<th>Std</th>
<th>LT – ppm</th>
<th>LT – mg/m3</th>
<th>ST – ppm</th>
<th>ST – mg/m3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>WEL</td>
<td>500ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>WEL</td>
<td>50 ppm (Sk)</td>
<td>191 mg/m3</td>
<td>150 ppm (Sk)</td>
<td>574 mg/m3 (Sk)</td>
</tr>
<tr>
<td>Hexane – norm</td>
<td>WEL</td>
<td>20 ppm</td>
<td>72 mg/m3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>WEL</td>
<td>500 ppm</td>
<td>1210 mg/m3</td>
<td>1500 ppm</td>
<td>3620 mg/m3</td>
</tr>
</tbody>
</table>
PROCESS CONDITIONS
Use engineering controls to reduce air contamination to permissible exposure level. Provide eye wash, quick drench.

ENGINEERING MEASURES
Provide adequate ventilation, including appropriate local extraction to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT
If ventilation is insufficient, suitable respiratory equipment must be provided.

HAND PROTECTION
Protective gloves must be used if there is a risk of direct contact or splash.

EYE PROTECTION
Use approved safety goggles or face shield.

PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Amber</td>
</tr>
<tr>
<td>Odour</td>
<td>Aromatic</td>
</tr>
<tr>
<td>Volatility Description</td>
<td>Highly volatile</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Range 55 - 111°C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point</td>
<td>-26°C</td>
</tr>
<tr>
<td>Auto Ignition Temp</td>
<td>220°C</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Auto ignition</td>
<td>N/A</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.85 – 0.89 approx</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2000 – 7000cPs @ 20°C</td>
</tr>
<tr>
<td>Solubility Value</td>
<td>None</td>
</tr>
</tbody>
</table>

STABILITY AND REACTIVITY
STABILITY: Stable under normal temp conditions

CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition. Avoid exposure to high temp or direct sun light.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may liberate carbon oxides and other toxic vapours.

TOXICOLOGICAL INFORMATION
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION: Harmful by inhalation. Vapours may cause drowsiness and dizziness.

INGESTION: Irritating. May cause nausea, stomach pain and vomiting.

SKIN CONTACT: Product has defatting effect on skin. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT: Irritating and may cause redness and pain. Risk of corneal damage.

ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biodegradability</td>
<td>NONE KNOWN</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td>NONE KNOWN</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>NONE KNOWN</td>
</tr>
<tr>
<td>Acute Fish Toxicity</td>
<td>Very toxic to aquatic organisms</td>
</tr>
</tbody>
</table>
DISPOSAL CONSIDERATION

Waste is classified as special waste. Disposal is licensed waste disposal site in compliance with local and national regulations.

TRANSPORT INFORMATION

UK road class 3

REGULATORY INFORMATION

Contains Roslin Toulene

Risk Phrases referred to above

R11 Highly flammable
R43 May cause sensation by skin contact
R36/38 Irritating to skin and eyes
R48/20 Harmful: danger of serious damage to health on prolonged contact
R63 Possible risk of harm to the unborn child
R51/53 Toxic to aquatic organisms, long term effects in aquatic environment
R67 Vapours may cause drowsiness and dizziness

Safety Phrases

S9 Keep container in a well ventilated place
S16 Keep away from sources of ignition
S25 Avoid contact with eyes
S26 In case of eye contact, rinse with cold water and seek medical advice
S51 Use only in well ventilated areas
S36/37 Wear suitable protective clothing and gloves
S57 Use appropriate container to avoid environmental contamination
S60 This material and its container must be disposed of as hazardous waste
S61 Avoid release into the environment