MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>‘SP’ Ink-Red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade Names</td>
<td>Stamp Pad Ink</td>
</tr>
<tr>
<td>Other Names</td>
<td>Marking Ink</td>
</tr>
<tr>
<td>Manufacturers Code</td>
<td>12988, 12989, 12990, 12995, 13005</td>
</tr>
</tbody>
</table>

Use and method of Application:

STAMP PAD INK FOR GENERAL USE ON STAMP PAD WITH RUBBER STAMPS AND PHOTOPOLYMER STAMPS. SLOW DRYING FOR USE ONLY ON ABSORBENT SURFACES. SLOW DRYING INKS DO NOT CAUSE DAMAGE TO STAMPS AND PADS AND WILL NOT EASILY DRY OUT WHEN LEFT UNATTENDED. WHEN APPLIED TO ABSORBENT SURFACES THEY PRODUCE A PERMANENT MARK.

HAZARDS IDENTIFICATION

Statement of Hazardous Nature
Classified as HAZARDOUS SUBSTANCE, DANGEROUS GOODS according to the criteria of NOHSC.

APPLICABLE RISK PHRASES

<table>
<thead>
<tr>
<th>R10</th>
<th>Flammable</th>
</tr>
</thead>
<tbody>
<tr>
<td>R 20/21/22</td>
<td>Harmful by inhalation, in contact with skin and if swallowed</td>
</tr>
<tr>
<td>R 37</td>
<td>Irritating to respiratory system</td>
</tr>
</tbody>
</table>

APPLICABLE SAFETY PHRASES

<table>
<thead>
<tr>
<th>S9</th>
<th>Keep container in well ventilated space.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S16</td>
<td>Keep away from sources of ignition - No smoking</td>
</tr>
<tr>
<td>S24/S25</td>
<td>Avoid contact with eyes and skin</td>
</tr>
<tr>
<td>S33</td>
<td>Take precautionary measures against static discharges.</td>
</tr>
</tbody>
</table>
‘SP’ Ink - Red

COMPOSITION / INFORMATION ON INGREDIENTS

Poisons Schedule: EXEMPT

Ingredients:

<table>
<thead>
<tr>
<th>CHEMICAL ENTITY</th>
<th>CAS.NO</th>
<th>PROPORTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>30-60%</td>
</tr>
<tr>
<td>Ethylene Glycol Mono Butyl Ether</td>
<td>111-76-2</td>
<td>10-30%</td>
</tr>
<tr>
<td>1,2,3 Propanetriol</td>
<td>56-81-5</td>
<td>10-30%</td>
</tr>
<tr>
<td>Water</td>
<td>N/A</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Dyes</td>
<td>Various</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Resins</td>
<td>Various</td>
<td>&lt; 10%</td>
</tr>
</tbody>
</table>

FIRST AID

Inhaled: Remove from contaminated area into fresh air, keep warm and rest. If respiration is difficult or breathing stopped apply resuscitation and consult physician.

Eye: Immediately Irrigate with copious quantities of water for at least 15 minutes. Check for physical damage and seek medical advice.

Skin: Immediately wash contaminated skin with soap and water. Remove contaminated clothing and Launder before reuse.

Swallowed: Do not induce vomiting. If there is any suspicion of aspiration into the lungs seek medical advice immediately as pneumonitis may occur.

Advice to Doctor: Glycol ethers can be absorbed through the skin but the exposure must be prolonged to produce harmful effects. The nature of this product prevents this from occurring. Because of risk of aspiration, gastric lavage should only be undertaken after endotracheal intubation.

FIRE FIGHTING MEASURES

Extinguishing media:
Foam, dry agents, CO2 or water delivered as fine mist spray or fog.

Hazards from Combustion Products:
If heated to decomposition may release COx and complex hydrocarbons.

Specific Hazard:
Highly flammable liquids and vapour.

Special fire fighting recommendations:
Keep uninvolved containers cool with water spray.
Contain run-off for later collection and controlled disposal.
Protective clothing and self contained breathing apparatus should be used by firemen.

HAZCHEM Code: 2[Y]
ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:**
Soak up with suitable chemical absorbent material and dispose of as per local authority regulations.

HANDLING AND STORAGE

**Handling**
Avoid contact with skin. Avoid inhalation of vapours or mists. Use in well ventilated area away from all ignition sources.

**Conditions for safe storage**
Store in cool well ventilated dry area. Store in tightly sealed original container away from sources of ignition. Do not repack in any other containers.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Most likely exposure will be accidental contact with skin while using Stamp Pad

**Exposure Standards:**

**SUBSTANCE NAME:** Acetone  
**CAS Number:** 67-64-1  
**Exposure Standard:**  
TWA: 500 ppm (approx = 1,195 mg/m$^3$)  
STEL: 1,000 ppm (approx = 2,380 mg/m$^3$)  
**Adopted Exposure Standard:**  
TWA: 500ppm (approx = 1190mg/m$^3$)  
STEL: 1000ppm (approx = 2380mg/m$^3$)

**SUBSTANCE NAME:** Ethylene Glycol Mono Butyl Ether  
**CAS Number:** 111-76-2  
**Exposure Standard:**  
TWA: 25ppm, 121mg/m3

**SUBSTANCE NAME:** Ethanol  
**CAS Number:** 64-17-5  
TWA: 1,000 ppm 1,880 mg/m3

**Biological Limit Values:**
There is no biological limit values allocated.

**Engineering Controls:**
Provide adequate ventilation. Ensure ventilation is adequate to maintain air concentrations below exposure standards. Eliminate all sources of ignition.
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**Personal Protection:**
Avoid eye and skin contact.
Wear safety glasses.
Wear protective clothing to avoid skin contact for example latex gloves.

<table>
<thead>
<tr>
<th>PHASE</th>
<th>PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Opaque Coloured medium Viscosity liquid.</td>
</tr>
<tr>
<td>Odour:</td>
<td>Sweet musty odour.</td>
</tr>
<tr>
<td>pH:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapour Pressure:</td>
<td>88mm @ 25°C</td>
</tr>
<tr>
<td>Vapour Density:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Boiling Point (°C):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Freezing Point (°C):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.016-1.076 Kg/L</td>
</tr>
<tr>
<td>Flash Point (°C):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>UEL / LEL in air:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Ignition Temperature:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>% Volatile:</td>
<td>95-97%</td>
</tr>
<tr>
<td>Other Properties:</td>
<td></td>
</tr>
</tbody>
</table>

**Flammability:**
Flammable gases, liquid and vapour.

**STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal conditions of use.

**Conditions to avoid:** Flames, sources of ignition and incompatibilities.

**Incompatible materials:** reacts with oxidising agents, acids and alkalis.

**Hazardous decomposition Products:** If heated to decomposition may release CO\textsubscript{x} and complex hydrocarbons.

**Hazardous reactions:** Not determined

**TOXICOLOGICAL INFORMATION**

Likely routes of exposure that may result in adverse health effects are accidental contact with skin and eyes:

**ACUTE EFFECTS:**

**Eye:** Moderate irritant. Can be absorbed through eyes. Can produce transient injury.

**Skin:** Slight irritant. Can be readily absorbed through skin without signs of local irritation. Skin absorption is the most significant route of exposure.

**Inhaled:** Harmful by inhalation. Irritation of nose and throat and may cause drowsiness.

**Swallowed:** Harmful if swallowed in large quantities
‘SP’ Ink- Red

No other adverse health effects are expected if the product is handled in accordance with the safety data sheet and the product label. Symptoms that may arise if the product is mishandled are:

CHRONIC EFFECTS:
Prolonged or repeated skin exposure may lead to dermatitis through the drying action of the solvent.

ACUTE TOXICITY / CHRONIC TOXICITY
No LD50 data available for this product.

ECOLOGICAL INFORMATION

Ecotoxicity: Not determined.
PersistenCe / Degradability: Not determined
Mobility: Not determined

DISPOSAL CONSIDERATIONS

Dispose of empty containers into a refuse bin for collection by local authority.

TRANSPORT INFORMATION

U.N. Number : 1210
UN Proper Shipping Name : Printing Ink Flammable
Dangerous Goods Class : 3
Subsidiary Risk : N/A
Packaging Group : III
Special Precautions for user : transport as per regulations pertaining to UN 1210
Hazchem Code : 2[Y]

REGULATORY INFORMATION

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS)

OTHER INFORMATION

References:
Australian Standards References:
AS 1020  The Control of Undesirable Static Electricity.
AS 1076  Code of Practice for selection, installation and maintenance of electrical apparatus and associated equipment for use in explosive atmospheres (other than mining applications) – Parts 1 to 13
AS/NZS 1336  Recommended Practices for Occupational Eye Protection
AS/NZS 1715  Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716  Respiratory Protective Devices
‘SP’ Ink- Red
AS 1940 The Storage and Handling of Flammable and Combustible Liquids
AS 2161 Industrial Safety Gloves and Mittens (excluding electrical and medical gloves)
AS 2380 Electrical equipment for explosive atmospheres – Explosion Protection Techniques (Parts 1 to 9)
AS 3000 Electrical installations (known as the Australian/New Zealand Wiring Rules).
NES National Occupational Exposure Standards for Workplace Atmospheric Contaminants (NES), Safe Work Australia (formerly ASCC/NOHSC) 1995 as amended.

DATE OF REVISION: 08/04/14
Reason for issue: Routine review. No change
CONTACT: QOHSE Department
Phone: (+61) 7 3364 2100
End of MSDS