SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 4 Solvent Cement for Bonding Acrylics

PRODUCT USE: Low VOC Solvent Cement for Bonding Acrylics "FOR INDUSTRIAL USE ONLY, NOT FOR HOME, SCHOOL OR RECREATIONAL USE"

SUPPLIER: SCIGRIP Smarter Adhesive Solutions
MANUFACTURER: IPS Corporation

600 Ellis Road, Durham, NC 27703 - USA
17159 South Main Street, Gardena, CA 90248-3127
P.O. Box 12729, Research Triangle Park, NC 27709 - USA
P.O. Box 379, Gardena, CA 90247-0379
Tel: 1-919-598-2400
Tel: 1-813-248-0585 (International)

EMERGENCY: Transportation: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)
Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Acute Toxicity: Category 2
Skin Irritation: Category 2B
Skin Sensitization: NO
Eye Irritation: Category 2A
Carcinogenicity: Category 1B

GHS LABEL:

Signal Word: DANGER
WHMIS CLASSIFICATION: CLASS D, DIVISION 1B

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing.

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
Skin contact: Wash skin with soap and water. If irritation develops, get medical attention
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Ingestion: Do not induce vomiting. Seek medical advice immediately.
Acute symptoms and effects:
Inhalation: Excessive overexposure may cause irritation to nose and throat. In confined areas, vapor can accumulate and cause unconsciousness.
Eye Contact: May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cause mild discomfort and redness.
Skin Contact: Prolonged contact may cause skin burns. May cause more severe response on covered skin (under clothing and gloves).
Ingestion: Low toxicity if small amount swallowed, however larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine spray, carbon dioxide, dry chemical or foam.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Clear all personnel from area. Do not breathe vapors. Ventilate area of leak or spill. Wear protective equipment.
Environmental Precautions: Follow all precautionary information on container label, product bulletins and solvent bonding literature.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation.
Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Vapors of this product are heavier than air and will collect in low areas.
Do not eat, drink or smoke while handling.
Storage: Store in a dry place. Keep container tightly closed when not in use. Store below 80°F (27°C).

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

Exposure Limits:

Component | ACGIH 8 h-TLV | ACGIH 15 min-STEL | OSHA 9 h-PEL | OSHA 15 Min-STEL | OSHA PEL-Ceiling | NIOSH 8 h-PEL | CAL/OSHA Ceiling | CAL/Osha 10 Min-STEL
--- | --- | --- | --- | --- | --- | --- | --- | ---
Methylene Chloride | 50 ppm | N/E | 25 ppm | 125 ppm | N/E | N/E | N/E | N/E
Trichloroethylene | 50 ppm | 100 ppm | 100 ppm | 100 ppm | N/E | 200 ppm | 25 ppm | 300 ppm
Methyl Methacrylate Monomer | 50 ppm | 100 ppm | 100 ppm | 100 ppm | N/E | N/E | 50 ppm | 100 ppm

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below exposure guidelines.
Lethal concentrations may exist in areas with poor ventilation.
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):
Eye Protection: Use chemical goggles. If exposure causes eye discomfort, use a full-face respirator.
Skin Protection: Prevent contact with the skin as much as possible. Use protective clothing chemically resistant to this material. Remove contaminated clothing immediately, wash skin with soap and water and launder clothing before reuse or dispose of properly.
Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above.

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### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, thin liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Irritating</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>250 ppm (Methylene Chloride)</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting-Freezing Point</td>
<td>-96.7°C / -142.1°F (Methylene Chloride)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>39.8°C / 104°F (based on first boiling component: Methylene Chloride)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.378 @ 23°C / 73.4°F</td>
</tr>
<tr>
<td>Solubility</td>
<td>1.3% @ 25°C (Methylene Chloride)</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol/water</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>556°C / 1033°F (Methylene Chloride)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>VOC Content</td>
<td>When applied as directed, per SCAQMD Rule 1168, VOC content is ≤ 660 g/l.</td>
</tr>
</tbody>
</table>

### STABILITY AND REACTIVITY

- **Stability**: Stable under recommended storage conditions. (See Section 7)
- **Hazardous decomposition products**: Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine, phosgene.
- **Conditions to avoid**: Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight.
- **Incompatible Materials**: Oxidizers, strong bases, amines, metals such as zinc powders, aluminum or magnesium powders, potassium sodium.

### TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>LD50 (oral)</th>
<th>LC50 (oral)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride (dichlorohemathane)</td>
<td>Oral: 1500-2500 mg/kg (rat), Dermal: Not Determined</td>
<td>Inhalation 7 hrs. &gt;10000 PPM (rat)</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>Oral: 5650 mg/kg (rat)</td>
<td>Inhalation 4 hrs. 12000 PPM (rat)</td>
</tr>
<tr>
<td>Methyl Methacrylate Monomer, Stabilized (MMA)</td>
<td>Oral: 7900 mg/kg (rat), Dermal: &gt;35000 mg/kg (rabbit)</td>
<td>Inhalation 3 hrs. 7093 PPM (rat)</td>
</tr>
</tbody>
</table>

### ECOLOGICAL INFORMATION

- **Ecotoxicity**:
  - Trichloroethylene (TCE) LC50 Pimephales promelas (fathead minnow) 41 mg/l - 96 h
  - Toxicity to daphnia EC50 WaterFlea (Daphnia magna) 18 mg/l - 48 h
  - Toxicity to algae EC50 - P. subcapitata (green algae) 175 mg/l - 96 h

### TRANSPORT INFORMATION

- **Hazard Class**: 6.1
- **Primary Shipping Name**: Dichloromethane (Mixture)
- **Secondary Risk**: None
- **Identification Number**: UN 1593
- **Packaging Group**: PG II
- **Marine Pollutant**: NO

### REGULATORY INFORMATION

- **Precautionary Label Information**: Harmful, Suspected Carcinogenic
- **Risk Phrases**: R39/40: Toxic by inhalation, in contact with skin and if swallowed.
- **Safety Phrases**: S2: Keep out of the reach of children. S9: Keep container tightly closed when not in use.
- **Written notification is required to the EPA once annually when this product is exported to a new country.**

### OTHER INFORMATION

- This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.