SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 16 Solvent Cement for Acrylic
PRODUCT USE: Solvent Cement for Bonding Acrylics
SUPPLIER: SCIGRIP Smarter Adhesive Solutions
MANUFACTURER: SCIGRIP Smarter Adhesive Solutions

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:
<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Category 4</td>
<td>Acute Toxicity: None Known</td>
<td>Flammable Liquid Category 2</td>
</tr>
<tr>
<td>Skin Irritation: Category 3</td>
<td>Chronic Toxicity: None Known</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitization: NO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eye: Category 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GHS LABEL: Signal Word: Warning
WHMIS CLASSIFICATION: CLASS B, DIVISION 2
CLASS D, DIVISION 1B

H225: Highly flammable liquid and vapour
H319: Causes serious eye irritation
H335: May cause respiratory irritation
H351: Suspected of causing cancer
H317: May cause an allergic skin reaction
H337: May cause skin irritation
H319: May cause serious eye irritation

Precautionary Statements
P261: Avoid breathing dust/fume/gas/mist/vapors/spray
P280: Wear protective gloves/protective clothing/eye protection/face protection
P337+P313: Get medical advice/attention

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CASA</th>
<th>EINECS #</th>
<th>REACH Pre-registration Number</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>250-838-9</td>
<td>172119290670-39-0000</td>
<td>30 - 60</td>
</tr>
<tr>
<td>79-20-9</td>
<td>251-185-2</td>
<td>1721192906085-40-0000</td>
<td>10 - 15</td>
</tr>
<tr>
<td>78-93-3</td>
<td>251-159-0</td>
<td>052162297228-24-0000</td>
<td>10 - 30</td>
</tr>
<tr>
<td>80-62-6</td>
<td>251-297-1</td>
<td>05216229733-37-0000</td>
<td>0 - 2</td>
</tr>
</tbody>
</table>

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.

* Indicates that this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).

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 exposure continues, get medical advice.
Ingestion: Do not induce vomiting. Seek medical advice immediately.

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:
Exposure to this material may cause irritation to nose and throat. In confined areas, vapor can accumulate and can 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).

Inhalation: Low toxicity if small amount swallowed, however larger amounts may cause injury. Aspiration into the lungs may occur during ingestion or vomiting.

Chronic (long-term) effects:
IARC Classification 2B (Methylene Chloride)

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fire spray, carbon dioxide, dry chemical or foam.
Unsuitable Extinguishing Media: Dry chemical powder.
Exposure Hazards: Inhalation and dermal contact.
Combustion Products: Hydrogen chloride, trace amounts of chlorine, phosgene.
Protection for Firefighters: Wear self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

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: Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.
Methods for Cleaning up: Mop or soak up immediately. Place in properly labeled metal containers.
Materials not to be used for cleanup: Zinc, Aluminum or plastic containers

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation.
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:

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene Chloride (dichloromethane)</td>
<td>50 ppm</td>
<td>N/E</td>
<td>25 ppm</td>
<td>125</td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>200 ppm</td>
<td>N/E</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>200 ppm</td>
<td>N/E</td>
</tr>
<tr>
<td>Methylene Acrylate Monomer, Stabilized (MMA)</td>
<td>50 ppm</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>N/E</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide general and/or local exhaust ventilation to control airborne levels below exposure guidelines.

Monitoring: Lethal concentrations may exist in areas with poor ventilation.

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 area 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.

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, medium syrupy liquid
Odor: Ketone
pH: Not Applicable
Melting-Freezing Point: -99°C (-168°F) (Methyl Acetate)
Boiling Point: 39.8°C (104°F) Based on first boiling component: Methylene Chloride
Flash Point: -10°C (14°F) (Methyl Acetate)
Specific Gravity: 1.107 @23°C (73.4°F)
Solubility: 32%/100% HDI (Methyl Acetate)
Partition Coefficient n-octanol/water: Not Available
Auto-ignition Temperature: 454°C (849°F) (Methyl Acetate)
Decomposition Temperature: Not Applicable

SECTION 10 - 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.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: Methylen Chloride (dichloromethane)
- Oral: 1500-2500 mg/kg (rat), Dermal: Not Determined
- Inhalation 7 hrs. >10000 PPM (rat)
- Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)
- Inhalation 8 hrs. 23,500 mg/m³ (rat)

Reproductive Effects
- Oral: > 5000 mg/kg (oral/rabbit)
- Maternity: Not Established

Teratogenicity
- Orally: > 5000 mg/kg (oral/rabbit)

Embryotoxicity
- Oral: 1500-2500 mg/kg (rat), Dermal: Not Determined

Target Organs
- STOT SE3

Sensitization to Product
- Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)
- Inhalation 4 hrs. 4100 PPM (rat)
- Oral: 5900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)
- Inhalation 12 hrs. 25,000 mg/m³ (rat)

Synergistic Products
- MEK: R11: Highly Flammable
- Methylene Chloride: R36: Irritating to eyes, R37/38: Irritating to respiratory system and skin.
- Sensitivity to Product
- Dermal: 1.4% (MEK)
- Inhalation: 3 hrs. 7093 PPM (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known
Mobility: In normal use, emission of volatile organic compounds (VOC’s) to the air takes place, typically at a rate of ≤250 g/l. Mobility in soil is high.
Degradability: Moderately biodegradable
Bioaccumulation: Low

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proprietary Shipping Name: Flammable Liquid, tox n.0.s. (Methyl Acetate, Dichloromethane)
Hazard Class: 3
Secondary Risk: 6.1
Identification Number: UN 992
Pack Group: PG II
Label Required: Flammable Liquid & TOXIC - 6
Un Number: UN 992
Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:
- Flammable, Harmful, Suspected Carcinogen
- F, Xn
Risk Phrases:
- R11: Highly Flammable
- R36: Irritating to eyes
- R37/38: Irritating to respiratory system and skin.
- R40: Limited evidence of a carcinogenic effect
Safety Phrases:
- S2: Keep out of reach of children.
- S9: Keep container in a well-ventilated place.
- S16: Keep away from sources of ignition. No smoking.
- S23/24/25: Avoid breathing vapors, contact with skin and eyes.
- S46: If swallowed, seek medical advice immediately and show this container or label.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

SECTION 16 - OTHER INFORMATION

Specification Information:
- Department issuing data sheet: IPS, Safety Health & Environmental Affairs
- All ingredients are compliant with the requirements of the European directive on RoHS (Restriction of Hazardous Substances).
- Training necessary: Yes, training in practices and procedures contained in product literature.

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.