SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 2354 Solvent Cement for bonding ABS and Styrene
PRODUCT USE: Solvent Cement for Bonding ABS and Styrene
SUPPLIER: SCIGRIP Smarter Adhesive Solutions
Manufacturer: SCIGRIP Smarter Adhesive Solutions
Address: 600 Ellis Road, Durham, NC 27703 - USA
P.O. Box 12729, Research Triangle Park, NC 27709 - USA
Tel: 1-919-598-2400

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

SECTION 2 - HAZARDS IDENTIFICATION

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

GHS LABEL: Signal Word: Danger
WHMIS CLASSIFICATION: CLASS B, DIVISION 2

Hazard Statements
- H225: Highly flammable liquid and vapor
- H319: Causes serious eye irritation
- H331: Harmful if inhaled
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- EUH401: May form explosive peroxides

Precautionary Statements
- P240: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P353: IF INGESTED: Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. For medical advice immediately.
- P313: Take off contaminated clothing and shoes (if safe to do so).
- P314: Wash hands after handling and removing contaminated clothing and shoes.
- P318: Take off contaminated clothing and wash it before re-use.
- P333: Keep out of the reach of children.
- P361: Take pains that containers are not left empty.
- P362: Take containers to recycled material collection point.
- P363: Do not dispose of into the drains.
- P373: Do not give anything by mouth.
- P381: Wash contaminated clothing before re-use.
- P401: Changevitamin. If breathing is difficult, give artificial respiration.
- P403+P233: Store in a well ventilated area. Keep container tightly closed.
- P405: In case of accident or if you feel unwell, seek medical advice immediately (show label where available).
- P411: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice immediately.
- P415: In case of contact with skin, immediately after removal of contaminated clothing and shoes, wash skin with clean water and soap.
- P421: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice immediately.
- P431: In case of contact with clothing, remove clothing immediately (taking care not to bring the material into the body) and wash clothing before reuse.
- P440: In case of contact with skin, wash immediately with clean water and soap.
- P451: In case of fire, use water, foam, carbon dioxide (CO2), dry chemical.
- P453: In case of fire, wear full-face escape呼吸器.
- P471: Take off and wash immediately all contaminated clothing.
- P501: Dispose of contents/container in accordance with local regulation.

Exposed Limits:
- 200 ppm
- 300 ppm
- 100 ppm
- 200 ppm
- N/E
- 200 ppm
- N/E
- 300 ppm

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>EINECS #</th>
<th>CONCENTRATION</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>78-93-3</td>
<td>201-159-0</td>
<td>05-216297728-24-0000</td>
<td>90 - 99</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 this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
- ** Indicates this chemical is found on Proposition 65’s List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 - FIRST AID MEASURES

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray or stream.
Unsuitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Habon, water fog.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:
- Keep away from heat, sparks and open flame.
- Provide sufficient ventilation, use explosion proof exhaust ventilation equipment or use suitable respiratory protective equipment.
- Prevent contact with skin or eyes (see section 8).

Environmental Precautions:
- Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

Methods for Cleaning up:
- Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.
- Materials not to be used for clean up: Aluminum or plastic containers.

SECTION 7 - HANDLING AND STORAGE

Handling:
- Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
- Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation/fume exhaust hoods.
- Do not eat, drink or smoke while handling.
- Store in ventilated room or in shade away from direct sunlight.
- Keep away from ignition sources and incompatible materials: caustics, ammonium, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates.

Follow all precautionary information on container label, product bulletins and solvent cementing literature.

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>
<th>OSHA PEL Ceiling</th>
<th>CAL/OSHA PEL Ceiling</th>
<th>CAL/OSHA STEL Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone (MEK)</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>200 ppm</td>
<td>N/E</td>
<td>200 ppm</td>
<td>N/E</td>
<td>300 ppm</td>
</tr>
</tbody>
</table>

Engineering Controls:
- Use local exhaust as needed.

Monitoring:
- Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):
- Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.
- Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.
- Use of solvent resistant gloves or solvent resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.
- Respiratory Protection: Prevent inhalation of the solvents. Use in a well ventilated room. Open doors and/or 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.

Date Revised: JUN 2015
Superceded: DEC 2014

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, water-thin liquid
Odor: Ketone
Odor Threshold: 5.4 ppm (MEK)
Melting/Freezing Point: -86°C (-123°F) Based on first melting component: MEK
Boiling Point: 80°C (176°F) Based on first boiling component: MEK
Flash Point: 9°C (16°F) TCC based on MEK
Specific Gravity: 0.805 @23°C (73.4°F)
Auto-ignition Temperature: 515°C (959°F) based on MEK
Partition Coefficient n-octanol/water: Not Available
Decomposition Temperature: Not Applicable
VOC Content: When applied as directed, per SCAGMD Rule 1168, VOC content is: < 795 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.
Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.
Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: 
LD₅₀ Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m³ (rat)
LC₅₀ STOT SE3
Target Organs: Methyl Ethyl Ketone (MEK)
Reproductive Effects: Not Established
Teratogenicity: Not Established
Mutagenicity: Not Established
Embryotoxicity: Not Established
Sensitization to Product: Not Established
Synergistic Products: Not Established

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 ≤ 795 g/l.
Degradability: Not readily biodegradable
Bioaccumulation: Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Methyl Ethyl Ketone
Hazard Class: 3
Secondary Risk: None
Identification Number: UN 1193
Packaging Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant
Risk Phrases: R11: Highly flammable.
R20: Harmful by inhalation.
R36/37: Irritating to eyes and respiratory system.
S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S25: Avoid contact with eyes.
S46: If swallowed, seek medical advice immediately and show this container or label.

SECTION 16 - 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.