GHS SAFETY DATA SHEET

SCIGRIP® 2354 Solvent Cement for bonding ABS and Styrene

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: MANUFACTURER: SCIGRIP Smarter Adhesive Solutions
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, 813-248-0585 (International)
Medical: Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Acute Toxicity</th>
<th>Chronic Toxicity</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>Category 4</td>
<td>Category 3</td>
<td>Category 2</td>
</tr>
<tr>
<td>Environmental</td>
<td>Acute Toxicity</td>
<td>Chronic Toxicity</td>
<td>Flammable Liquid</td>
</tr>
<tr>
<td></td>
<td>None Known</td>
<td>None Known</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Signal Word: Danger

OR

GHS LABEL:

Hazard Statements

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P261: Avoid breathing dust/fume/gas/mist/vapors/ spray
P280: Wear protective gloves/protective clothing/ eye protection/ face protection
P304+P303: If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P403+P233: Store in a well ventilated place. Keep container tightly closed
P601: Dispose of contents/container in accordance with local regulation

Precautionary Statements

P501: Dispose of contents/container in accordance with local regulation

EXPOSURE LIMITS: ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL:

Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm 300 ppm

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 that this chemical is found on Proposition 65’s List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS# EINECS # CONCENTRATION

Methyl Ethyl Ketone (MEK) 78-93-3 201159-0 05-21B297728-24-0000 90 - 99

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: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice immediately.
Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
Unsuitable Extinguishing Media: Water spray or steam.
Exposure Hazards: Inhalation and dermal contact
Combustion Products: Oxides of carbon, hydrogen chloride and smoke
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

Precautionary Statements:

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P261: Avoid breathing dust/fume/gas/mist/vapors/ spray
P280: Wear protective gloves/protective clothing/ eye protection/ face protection
P304+P303: If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P403+P233: Store in a well ventilated place. Keep container tightly closed
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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 wear 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.

Storage:
Store between 40° - 110°F (5° - 43°C). Store in ventilated room or in shade away from direct sunlight.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL:
Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm 300 ppm

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.

Respiratory Protection:
Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes.

With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.
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Date Revised: JUN 2012
Supersedes: APR 2012

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, water-thin liquid
Odor: Ketone
Odor Threshold: 5.4 ppm (MEK)

PH: Not Applicable

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: 0.81 @23°C (73.4°F)

Solubility: Solvent portion soluble in water. Resin portion separates out. 0.81 @23°C (73.4°F)

Partition Coefficient n-octanol/ water: Not Available

Auto-ignition Temperature: 515°C (959°F) based on MEK

Decomposition Temperature: Not Applicable

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: <650 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

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:
- Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.
- Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
- Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.
- 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.

Chronic (long-term) effects: None known to humans

Toxicity:
- LD50 Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)
- LC50 Inhalation 8 hrs: 23,500 mg/m³ (rat)

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 < 650 g/l.

Degradability: 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: Adhesives

Hazard Class: 3

Secondary Risk: None

Identification Number: UN 1133

Packing Group: PG II

Label Required: Class 3 Flammable Liquid

Section 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia

AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Risk Phrases:
- R11: Highly flammable.
- R20: Harmful by inhalation.
- R36/37: Irritating to eyes and respiratory system.
- R66: Repeated exposure may cause skin dryness or cracking
- R67: Vapors may cause drowsiness and dizziness

Safety Phrases:
- S9: Keep container in a well-ventilated place.
- S16: Keep away from sources of ignition - No smoking.
- S25: Avoid contact with eyes.
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S33: Take precautionary measures against static discharge.
- S46: If swallowed, seek medical advice immediately and show this container or label.

SECTION 16 - OTHER INFORMATION

Specification Information:

E-mail address: <EHSinfo@ipscorp.com>

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 6/26/2012 / Updated GHS Standard Format

Intended Use of Product: Adhesive for bonding/cementing ABS

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.