GHS SAFETY DATA SHEET

SCIGRIP® 2007 Vinyl Cement

Data Revised: DEC 2015
Suppressed: JUN 2015

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 2007 Vinyl Cement
PRODUCT USE: Solvent cement for bonding PVC
SUPPLIER: MANUFACTURER: SCIGRIP Smarter Adhesive Solutions
600 Ellis Rd, Durham, NC 27703 - USA
P.O. Box 12795, Research Triangle Park, NC 27709 - USA
Tel: 1-800-598-2400

EMERGENCY: Transportation: CHEMTEL, Tel. 800-255-3924, +1 813-245-5655 (International)
Medical: CHEMTEL, Tel. 800-255-3924, +1 813-245-5655 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

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

Hazard Statements

H301: Highly flammable liquid and vapor
H315: Causes serious eye irritation
H330: May cause respiratory irritation
H331: May cause dizziness or drowsiness
H335: May cause cancer
EU0880: Repeated exposure may cause skin dryness or cracking

Precautionary Statements

P261: Keep away from heat/sparks/open flame/blocked airways
P233: Store in a well-ventilated place. Keep container tightly closed

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS Numbers: 109-99-9, 202-128-8, 52-21156377/23-0000
Acetone: 67-64-1, 200-662-2, 52-21156377/13-35-0000

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 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

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.
Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk or milk products. Do not induce vomiting. Seek medical advice immediately.

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:
Inhalation: Severe overexposure may result in nausea, dizziness, headache. May cause drowsiness, irritation of eyes and nasal passages.
Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye irritation with conjunctival inflammatory reaction 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.

Chronic (Dangerous) effects: (THF) Category 2 Carcinogen

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
Water spray or stream: Health 2, 2-1/2, 1-1/2
Exposure Hazards: Inhilation and dermal contact: Health 3, 3-1/2
Combustion Products: Oxides of carbon, hydrogen chloride and smoke: Reactivity 0, 0, 3-1/2

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame. Provide sufficient ventilation, use explosion-proof ventilated equipment or wear suitable protective equipment. Do not use in confined spaces or closed areas.
Environmental Precautions: Provide suitable ventilation or exhaust equipment. Do not breathe dust, fumes or gas. Follow all safety precautions and use appropriate personal protective equipment.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling equipment and ensure adequate ventilation. Ventilate. Do not eat, drink or smoke while handling.
Storage: Store between 40° - 110°F (4° - 43°C). Store in ventilated room or in shade away from direct sunlight. Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and Lewis acids.

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 PER</th>
<th>CAL/OSHA PEL</th>
<th>CAL/OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene (65% Acetone)</td>
<td>100 ppm</td>
<td>75 ppm</td>
<td>100 ppm</td>
<td>1000 ppm</td>
<td>500 ppm</td>
<td>750 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 (speculars) 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 windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep concentrations below levels listed above.

With normal use, the Exposure Limit Value will not usually be reached. When levels approached, use respiratory protection equipment.

File: 5G2017_20170103_12.10AM Page 1 of 2 12/18/2015 11:32 AM
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Color,ropy liquid
Color: Ethered
Odor: Not Applicable
Odor Threshold: 2.5 ppm (THF)
pH: Not Applicable
Melting/Freezing Point: -108.5°C (-163.3°F) based on first melting component: THF
Boiling Point: 86°C (187°F) based on first boiling component: THF
Flash Point: >20°C (68°F) based on THF
Specific Gravity: 0.849 (20°C / 70°F)
Solubility: Solvent portion soluble in water. Resin portion separates out.
Partitions Coefficient n-Octanol / Water: Not Available
Auto-Ignition Temperature: 321°C (610°F) based on THF
Decomposition Temperature: Not Applicable

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, amine solutions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity:
- THF: LOR Oral 284 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m³ (rat)
- Acetone: Oral 5000 mg/kg (rat) Inhalation 50,100 mg/m³ (rat)

Target Organ:
- STOT SE3

Acute Oral LD₅₀: 3000 mg/kg (rat)
Acute Intravenous LD₅₀: 2000 mg/kg (rat)
Acute Intraperitoneal LD₅₀: 1500 mg/kg (rat)
Acute Intramuscular LD₅₀: 4000 mg/kg (rat)
Acute Intradermal LD₅₀: 800 mg/kg (rat)
Acute Inhaling LC₅₀: 2000 mg/m³ (rat)
Acute Inhalation R₅₀: 0.2
dermal Toxicity: Non-irritant
Corrosivity: Non-corrosive
Skin Sensitization: Non-sensitizing
Respiratory Sensitization: Non-sensitizing
Ocular Sensitization: Non-sensitizing
Acute Oral LD₅₀: 3000 mg/kg (rat)
Acute Intravenous LD₅₀: 2000 mg/kg (rat)
Acute Intraperitoneal LD₅₀: 1500 mg/kg (rat)
Acute Intramuscular LD₅₀: 4000 mg/kg (rat)
Acute Intradermal LD₅₀: 800 mg/kg (rat)
Acute Inhaling LC₅₀: 2000 mg/m³ (rat)
Acute Inhalation R₅₀: 0.2

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Non-Known
Mobility: In normal use, emission of volatile organic compounds (VOCs) to the air takes place, typically at a rate of ≤ 471 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: Flammable Liquid, n.o.s. (Tetrahydrofuran Acetone)
Hazard Class: 3
UN Number: 1993
PIG II
Label Required: Class 3 Flammable Liquid

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Corr. Cat. 2
Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia
AICS, Koez EOLU/CCQ, Japan MTR (ENCS)
Risk Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking
R36/37: Irritating to eyes and respiratory system. R50/53: Vapors may cause drowsiness and dizziness
Safety Phrases: S1: Keep out of reach of children S26: Do not inhale vapors.
S27: Do not inhale vapors.
S33: Take precautionary measures against static discharges.
S16: Keep away from sources of ignition. No smoking.

SECTION 16 - OTHER INFORMATION

Specification Information:
Department issuing data sheet: PIQ, Safety Health & Environmental Affairs
E-mail address: QEHSInfo@qpscorp.com
Directive on RoHS (Restriction of Hazardous Substances).
Training necessary: Yes, training in practices and procedures contained in product literature.
Retrieval date / reason for reissue: 10/18/2013 / Updated GHS Standard Format
Intended Use of Product: Solvent cement for bonding PVC
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.