



GHS SAFETY DATA SHEET

SCIGRIP® 16 Solvent Cement for Bonding Acrylics

Date Revised: **JUN 2012**
Supersedes: **MAY 2012**

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 16 Solvent Cement for Acrylic
PRODUCT USE: Solvent Cement for Bonding Acrylics
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:

| Health | Environmental | Physical |
|--|--|-----------------------------|
| Acute Toxicity: Category 4 Skin Irritation: Category 3 Skin Sensitization: NO Eye: Category 2 | Acute Toxicity: None Known Chronic Toxicity: None Known | Flammable Liquid Category 2 |

GHS LABEL:



Signal Word: Warning

WHMIS CLASSIFICATION: CLASS B, DIVISION 2
CLASS D, DIVISION 1B

| Hazard Statements | Precautionary Statements |
|--|--|
| H225: Highly flammable liquid and vapour H319: Causes serious eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction H335: May cause respiratory irritation EUH066: Repeated exposure may cause skin dryness or cracking | 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 P337+P313: Get medical advice/attention P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation |

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| | CAS# | EINECS # | REACH | CONCENTRATION |
|--|---------|-----------|-------------------------|---------------|
| | | | Pre-registration Number | % by Weight |
| Methylene Chloride*# (Dichloromethane) | 75-09-2 | 200-838-9 | 17-2119926076-39-0000 | 30 - 60 |
| Methyl Acetate | 79-20-9 | 201-185-2 | 17-2119926085-40-0000 | 10 - 15 |
| Methyl Ethyl Ketone (MEK) | 78-93-3 | 201-159-0 | 05-2116297728-24-0000 | 10 - 30 |
| Methyl Methacrylate Monomer*, Stabilized (MMA) | 80-62-6 | 201-297-1 | 05-2116297731-37-0000 | 0 - 2 |

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 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.

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine 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 positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.

| | HMIS | NFPA | |
|--------------|------|------|------------|
| Health | 2 | 2 | 0-Minimal |
| Flammability | 3 | 3 | 1-Slight |
| Reactivity | 1 | 1 | 2-Moderate |
| | | | 3-Serious |
| | | | 4-Severe |

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 positive pressure self contained or air supplied breathing apparatus. Follow confined space entry procedures.
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 clean up: 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. 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). Follow all precautionary information on container label, product bulletins and solvent bonding literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

| EXPOSURE LIMITS: | Component | ACGIH TLV | ACGIH STEL | OSHA PEL | OSHA STEL: |
|------------------|---|-----------|------------|----------|------------|
| | Methylene Chloride (dichloromethane) | 50 ppm | N/E | 25 ppm | 125 |
| | Methyl Acetate | 200 ppm | 250 ppm | 200 ppm | N/E |
| | Methyl Ethyl Ketone (MEK) | 200 ppm | 300 ppm | 200 ppm | 300 ppm |
| | Methyl Methacrylate Monomer, Stabilized (MMA) | 50 ppm | 100 ppm | 100 ppm | N/E |

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



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|-----------------------------|--------------------------------------|
| Appearance: | Clear, medium syrupy liquid | Odor Threshold: | 5.4 ppm (MEK) |
| Odor: | Ketone | | |
| pH: | Not Applicable | | |
| Melting/Freezing Point: | -99C (-146°F) (Methyl Acetate) | Evaporation Rate: | > 1.0 (BUAC = 1) |
| Boiling Point: | 39.8°C (104°F) Based on first boiling component: Methylene Chloride | Flammability: | None |
| Flash Point: | -10°C (14°F) (Methyl Acetate) | Flammability Limits: | LEL: 1.4% (MEK) |
| Specific Gravity: | 1.08 @23°C (73.4°F) | | UEL: 22% (Methylene Chloride) |
| Solubility: | 32g/100g H2O (Methyl Acetate) | Vapor Pressure: | 355 mmHG @ 20C (Methylene Chloride) |
| Partition Coefficient n-octanol/water: | Not Available | Vapor Density: | >2.0 (Air = 1) |
| Auto-ignition Temperature: | 454°C (849°F) (Methyl Acetate) | | |
| Decomposition Temperature: | Not Applicable | | |
| VOC Content: | When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤250 g/l. | | |

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

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

| | |
|----------------------|--|
| Inhalation: | Excessive overexposure 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). |
| Ingestion: | 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)

| Toxicity: | LD50 | LC50 | Target Organs |
|---|---|--|---------------|
| Methylene Chloride (dichloromethane) | Oral: 1500- 2500 mg/kg (rat) , Dermal: Not Determined | Inhalation 7 hrs. >10000 PPM (rat) | STOT SE3 |
| Methyl Acetate | Oral: > 5000 mg/kg (oral/rabbit) | Inhalation 4 hrs. 12000 PPM (rat) | STOT SE3 |
| Methyl Ethyl Ketone (MEK) | Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) | Inhalation 8 hrs. 23,500 mg/m ³ (rat) | STOT SE3 |
| Methyl Methacrylate Monomer, Stabilized (MMA) | Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit) | Inhalation: 3 hrs. 7093 PPM (rat) | STOT SE3 |

| Reproductive Effects | Teratogenicity | Mutagenicity | Embryotoxicity | Sensitization to Product | Synergistic Products |
|----------------------|-----------------|-----------------|-----------------|--------------------------|----------------------|
| Not Established | Not Established | Not Established | Not Established | Not Established | 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 ≤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

| | |
|-------------------------------|--|
| Proper Shipping Name: | Flammable Liquid, toxic n.o.s. (Methyl Acetate, Dichloromethane) |
| Hazard Class: | 3 |
| Secondary Risk: | 6.1 |
| Identification Number: | UN 1992 |
| Packing Group: | PG II |
| Label Required: | Flammable Liquid & TOXIC - 6 |
| Marine Pollutant: | NO |

| EXCEPTION for Ground Shipping |
|---|
| DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package. |
| Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D". |

| TDG INFORMATION | |
|--------------------------|--|
| TDG CLASS: | FLAMMABLE LIQUID 3, TOXIC 6.1 |
| SHIPPING NAME: | Flammable Liquid, toxic n.o.s. (Methyl Acetate, Dichloromethane) |
| UN NUMBER/PACKING GROUP: | UN 1992, PG II |

SECTION 15 - REGULATORY INFORMATION

| | | | |
|---|--|-----------------------------|--|
| Precautionary Label Information: | Flammable, Harmful, Suspected Carcinogen | Ingredient Listings: | USA TSCA, Europe EINECS, Canada DSL, Australia, AICS, Korea ECL/TCCL, Japan MITI (ENCS), CA Prop 65 |
| Symbols: | 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 | | R43: May cause sensitization by skin contact. R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness |
| Safety Phrases: | S2: Keep out of the 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. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. | | S29: Do not empty into drains. S33: Take precautionary measures against static discharges. S36/37: Wear suitable protective clothing and gloves. S46: If swallowed, seek medical advise immediately and show this container or label. |

SECTION 16 - OTHER INFORMATION

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|---|--|--|
| 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). |
| E-mail address: | <EHSinfo@ipscorp.com> | |
| Training necessary: | Yes, training in practices and procedures contained in product literature. | |
| Reissue date / reason for reissue: | 06/06/2012 / Updated GHS Standard Format | |
| Intended Use of Product: | Solvent Cement for Bonding Acrylics | |

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.