



# GHS SAFETY DATA SHEET

## SCIGRIP® 4 Solvent Cement for Bonding Acrylics

Date Revised: JUN 2015  
Supersedes: DEC 2014

### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** SCIGRIP® 4 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, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

### SECTION 2 - HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION:

Health		Environmental		Physical
Acute Toxicity:	Category 2	Acute Toxicity:	Category 3	None Known
Skin Irritation:	Category 2B	Chronic Toxicity:	Category 3	
Skin Sensitization:	NO			
Eye Irritation:	Category 2A			
Carcinogenicity:	Category 1B			

#### GHS LABEL:



**Signal Word:**  
**DANGER**

**WHMIS CLASSIFICATION:** CLASS D, DIVISION 1B  
CLASS D, DIVISION 2A & 2B

Hazard Statements		Precautionary Statements
H320: Causes eye irritation	H341: Suspected of causing genetic defects	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H335: May cause respiratory irritation	H350: Suspected of causing cancer	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H336: May cause drowsiness or dizziness		P280: Wear protective gloves/protective clothing/eye protection/face protection
H351: Suspected of causing cancer		P337+P313: Get medical advice/attention
H412: Harmful to aquatic life with long lasting effects		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
Trichloroethylene*#	79-01-6	201-167-4	N/A	40 - 60
Methyl Methacrylate Monomer*, Stabilized (MMA)	80-62-6	201-297-1	05-2116297731-37-0000	0 - 1

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).  
# 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.

**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)

### SECTION 5 - FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water fog or fine spray, carbon dioxide, dry chemical or foam.	HMIS	NFPA	0-Minimal
<b>Unsuitable Extinguishing Media:</b>	Dry chemical powder.	Health	2	1-Slight
<b>Exposure Hazards:</b>	Inhalation and dermal contact.	Flammability	0	2-Moderate
<b>Combustion Products:</b>	Oxides of carbon, hydrogen chloride.	Reactivity	0	3-Serious
<b>Protection for Firefighters:</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing.			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	ACGIH	OSHA	OSHA	OSHA	CAL/OSHA	CAL/OSHA	CAL/OSHA
		8 hr-TLV	15 min-STEL	8 hr-PEL	15 Min-STEL	PEL-Ceiling	8 Hr-PEL	Ceiling	15 Min-STEL
	Methylene Chloride	50 ppm	N/E	25 ppm	125 ppm	N/E	N/E	N/E	N/E
	Trichloroethylene	50 ppm	100 ppm	100 ppm	N/E	200 ppm	25 ppm	300 ppm	100 ppm
	Methyl Methacrylate Monomer	50 ppm	100 ppm	100 ppm	N/E	N/E	50 ppm	100 ppm	N/E

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

<b>Appearance:</b>	Clear, thin liquid	<b>Odor Threshold:</b>	250 ppm (Methylene Chloride)
<b>Odor:</b>	Irritating		
<b>pH:</b>	Not Applicable		
<b>Melting/Freezing Point:</b>	-96.7°C (-142.1°F) (Methylene Chloride)	<b>Evaporation Rate:</b>	> 1.0 (BUAC = 1)
<b>Boiling Point:</b>	39.8°C (104°F) Based on first boiling component: Methylene Chloride	<b>Flammability:</b>	None
<b>Flash Point:</b>	None (Methylene Chloride)	<b>Flammability Limits:</b>	LEL: 14% (Methylene Chloride)
<b>Specific Gravity:</b>	1.375 @ 23°C (73.4°F)		UEL: 22% (Methylene Chloride)
<b>Solubility:</b>	1.3% @ 25°C (Methylene Chloride)	<b>Vapor Pressure:</b>	355 mmHG @ 20C (Methylene Chloride)
<b>Partition Coefficient n-octanol/water:</b>	Not Available	<b>Vapor Density:</b>	>2.0 (Air = 1)
<b>Auto-ignition Temperature:</b>	556°C (1033°F) (Methylene Chloride)	<b>Other Data: Viscosity:</b>	Water-thin
<b>Decomposition Temperature:</b>	Not Applicable		
<b>VOC Content:</b>	When applied as directed, per SCAQMD Rule 1168, VOC content is: ≤ 660 g/l.		

### SECTION 10 - STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions. (See Section 7)
<b>Hazardous decomposition products:</b>	Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine, phosgene.
<b>Conditions to avoid:</b>	Avoid open flames, welding arcs, or other high temperature sources. Avoid direct sunlight.
<b>Incompatible Materials:</b>	Oxidizers, strong bases, amines, metals such as zinc powders, aluminum or magnesium powders, potassium sodium.

### SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Toxicity:</b>	<b>LD50</b>	<b>LC50</b>
Methylene Chloride (dichloromethane)	Oral: 1500- 2500 mg/kg (rat) , Dermal: Not Determined	Inhalation 7 hrs. >10000 PPM (rat)
Trichloroethylene	Oral: 5650 mg/kg (rat)	Inhalation 4 hrs. 12000 PPM (rat)
Methyl Methacrylate Monomer, Stabilized (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 3 hrs. 7093 PPM (rat)

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

**Methylene Chloride:** Suspected human carcinogen  
IARC: 2B - Group 2B: Possibly carcinogenic to humans  
NTP: Reasonably anticipated to be a human carcinogen  
OSHA: OSHA specifically regulated carcinogen

**Trichloroethylene:** Possible Human Carcinogen  
IARC: 1 - Group 1: Carcinogenic to Humans  
NTP: Reasonably anticipated to be a human carcinogen

### SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity: Trichloroethylene (TCE)</b>	<b>Species</b>	<b>Test Results</b>
Toxicity to fish	LC50-Pimephales promelas (fathead minnow)	41 mg/l - 96 h
Toxicity to daphnia	EC50 WaterFlea (Daphnia magna)	18 mg/l - 48 h
Toxicity to algae	EC50 - P. subcapitata (green algae)	175 mg/l - 96 h
<b>Mobility:</b>	No Data Available	
<b>Degradability:</b>	No Data Available	
<b>Bioaccumulation:</b>	Does Not Bioaccumulate	
<b>Other:</b>	Harmful to aquatic life with long lasting effects	

### SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your supplier or a licensed contractor for detailed recommendations. Do not re-use empty containers.

### SECTION 14 - TRANSPORT INFORMATION

<b>Proper Shipping Name:</b>	Dichloromethane (Mixture)
<b>Hazard Class:</b>	6.1
<b>Secondary Risk:</b>	None
<b>Identification Number:</b>	UN 1593
<b>Packing Group:</b>	PG III
<b>Label Required:</b>	Toxic (Domestic USA and International)
<b>Marine Pollutant:</b>	NO

**EXCEPTION for Ground Shipping**  
**DOT Limited Quantity:** Up to 4L 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:	Toxic 6.1
SHIPPING NAME:	Dichloromethane (Mixture)
UN NUMBER/PACKING GROUP:	UN 1593, PG III

### SECTION 15 - REGULATORY INFORMATION

<b>Precautionary Label Information:</b>	Harmful, Suspected Carcinogen	Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia, AICS, Korea ECL/TCCL, Japan MITI (ENCS), <b>CA Prop 65</b>
<b>Symbols:</b>	Xn	
<b>Risk Phrases:</b>	R23/34/35: Toxic by inhalation, in contact with skin and if swallowed. R36/37: Irritating to eyes and respiratory system. R40: Limited evidence of a carcinogenic effect	R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
<b>Safety Phrases:</b>	S2: Keep out of the reach of children. S7: Keep container tightly closed when not in use. 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. S51: Use only in well ventilated areas.

### SECTION 16 - OTHER INFORMATION

<b>Specification Information:</b>		
<b>Department issuing data sheet:</b>	IPS, Safety Health & Environmental Affairs	All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).
<b>E-mail address:</b>	<EHSinfo@ipscorp.com>	
<b>Training necessary:</b>	Yes, training in practices and procedures contained in product literature.	
<b>Reissue date / reason for reissue:</b>	6/1/2015 / Updated GHS Standard Format	
<b>Intended Use of Product:</b>	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.