SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SCIGRIP® 10 Low VOC 2-Component Adhesive (Refer to Technical Data Sheet for Mix ratio)

PRODUCT USE: 2-Component Cartridge, high-strength, high viscosity, reactive Structural Adhesive

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 (Company (International))

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Health Acute Toxicity: Category 4 Health Chronic Toxicity: Category 3
Environmental Skin Irritation: Category 2 Skin Sensitization: Category 1
Physical Eye: Category 2

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

PRECAUTIONARY STATEMENTS
H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation P233 - Keep container tightly closed P262: Do not get in eyes, on skin, or on clothing
H312 - Harmful in contact with skin H335 - May cause respiratory irritation P260 - Do not breathe vapor P271 - Use only outdoors or in a well-ventilated area
H317 - May cause an allergic skin reaction EUH066 - Repeated exposure may cause skin dryness or cracking

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT "A" (Base Resin)
Methyl Methacrylate Monomer (MMA),* Stabilized 80-62-6 201-297-1 05-2116297731-37-0000 Flammability 45 - 75
Methacrylic acid (MAA) 79-41-4 201-204-4 05-2116297727-26-0000 <2%

COMPONENT "B" (Catalyst-Initiator)
Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-2116297728-24-0000 25 - 60 Benzoyl Peroxide (BPO)* 94-36-0 202-327-6 05-2116297715-31-0000 <12%

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).

SECTION 4 - FIRST AID MEASURES

Contact with eyes: Rush 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 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 stream.
Exposure Hazards: Inhalation and dermal contact.
Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.

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: Contain spill with sand or other inert absorbent or absorbent material. Use non-sparking tools. Transfer to a closable vessel (Metal or polyethylene [PE]).

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 50° - 80°F (10° - 27°C). Store in ventilated room or shade and away from direct sunlight. Keep container tightly closed when not in use.
Keep away from ignition sources and incompatible materials. Follow all precautionary information on container label and product bulletins.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:
Component CAS AGCH ILY AGCH STEL DOSHA PEL DOSHA STEL
Methyl Methacrylate Monomer 50 ppm 100 ppm 100 ppm N/E
Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E
Benzyol Peroxide 5 mg/m^3 N/E 5 mg/m^3 N/E
Methacrylic Acid 20 ppm skin N/E 20 ppm skin N/E

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Eye Protection: Avoid contact with eyes, wear splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields.

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: Use in a well-ventilated room. 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.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: “A” White, viscous liquid; “B” Clear, syrupy liquid
Odor: “A” Acrid odor, “B” Ketone
pH: Not Applicable
Boiling Point: “A” 100.5°C (212.9°F) based on first boiling component: MMA “B” 80°C (176°F) based on MEK
Flash Point: “A” 11.5°C (52.7°F) T.C.C. based on MMA, “B” -9°C (15.8°F) for MEK
Specific Gravity: “A” 1.053 @23°C (73°F), “B” 0.950 @23°C (73°F)
Solubility: “A” Slight in Water (MMA), “B” 27.5% MEK @ 20°C (68°F)
Auto-ignition Temperature: “A” 421°C (789.8°F); “B” 404°C (759°F); MEK
Decomposition Temperature: “A” - N/A, “B” - N/A
VOC Content: “A” ≤ 50 g/l mixed, “B” N/E

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
Hazardous decomposition products: None in normal use. Oxides of carbon, oxides of nitrogen, hydrogen chloride, hydrocarbons, acid smoke and toxic gases upon combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute symptoms and effects:
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 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Reproductive Effects: Not Established
Mutagenicity: None known to humans
Teratogenicity: None
Embryotoxicity: Not Established
Mutagenicity: None
Sensitization to Product: Not Established
Synergistic Products: Not Established

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult local 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
Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant
Risk Phrases: R-11 Highly Flammable, R-36/37/38 Irritating to eyes, respiratory system and skin
Safety Phrases: S-2 Keep out of reach of children, S-3 Keep in a cool place

SECTION 16 - OTHER INFORMATION

Specification Information: IPS, Safety Health & Environmental Affairs
E-mail address: <EHSinfo@ipscorp.com>
Training necessary: Yes, training in practices and procedures contained in product literature.
Reissue date / reason for reissue: 01/21/2013 / Updated GHS Standard Format
Intended Use of Product: Reactive adhesive bonding/cementing plastics and other substrates

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