

## **GHS SAFETY DATA SHEET**

SCIGRIP<sup>®</sup> 42 2-Component Low VOC Adhesive (10:1 Mix Ratio)

Date Revised: DEC 2014
Supersedes: JUN 2014

SECTION I - PRODUCT AND COMPANY IDENTIFICATION								
PRODUCT NAME: SCIGRIP <sup>®</sup> 42 2-Component Low VOC Adhesive (10:1 Mix Ratio)								
PRODUCT USE:	2-Component Adhesive for bonding termoplastics, metals and other composites							
SUPPLIER:		narter Adhesive Solution						
		ad, Durham,NC 27703 - U						
		729, Research Triangle Pa 98-2400	IR, INC 27709	- 03A				
EMERGENCY: Transporta	tation: 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 Acute Toxicity:	Category 4	Acute Toxicity: Category 3			Flammable Liquid: Category 2			
Skin Irritation:	Category 2	Chronic Toxicity: Category 4						
Skin Sensitization: Eye:	Category 1 Category 2							
GHS LABEL:		Signal Word	Signal Word:			WHMIS CLASSIFICATION: CLASS B, DIVISION 2		
CHO EABEE!		Danger			CONTROLLED PRODUCI CLASS D, DIVISION 2B			
			1					
H225 - Highly flammable liquid	Hazard Statements	ause an allergic skin reaction	P233 - Keep cont	ainer tightly clos	Precautionary Statemen		skin, or on clothing	
			use respiratory irritation P260 - Do not bro					
H315 - Causes skin irritation								
SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS CAS# EINECS # REACH CONCENTRATION								
Component "A" (Base	Resin)	CAS# EINECS #	Pre-registration		% by Weigh			
Methyl Methacrylate Mono Component "B" (Catal)		80-62-6 201-297-1	05-211629773	1-37-0000	40 - 65			
Benzoyl Peroxide (BPO)*	(St-Initiator)	94-36-0 202-327-6	05-211629771	5-31-0000	<15%			
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:       Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.								
Inhalation:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. 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.         HMIS         NFPA         0-Minimal								
Unsuitable Extinguishi		al powder, carbon dioxide gas, foam, Halon, water fog. y or stream.			HMIS Health 2	<b>NFPA</b> 2	0-Minimal 1-Slight	
Exposure Hazards:		and dermal contact arbon, oxides of nitrogen, hydrogen chloride			Flammability 3	3	2-Moderate	
Combustion Products:		s, acrid smoke and gases.			Reactivity 2	2	3-Serious 4-Severe	
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 adsorbent or absorbent material. Use non-sparking tools.								
	• •	a closable vessel (Metal or po						
	DLING AND STORAG							
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) in well-ventilated area. 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	ACGIH TLV ACGIH STEL	OSHA PEL	OSHA STEL				
	Methyl Methacrylate Mon. Benzoyl Peroxide	50 ppm 100 ppm 5 mg/m <sup>3</sup> N/E	100 ppm 5 mg/m <sup>3</sup>	N/E N/E				
Engineering Controls:	Use local exhaust as need	°	o mg/m	102	1			
Monitoring: Maintain breathing zone airborne concentrations below exposure limits.								
Personal Protective Equipment (PPE): Eye Protection: Avoid contact with eyes, wear splashproof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields,								
Skin Protection:								
	Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application							
Respiratory Protection:		practices and procedures are used for making structural bonds. 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.								
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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES "A" - Clear, heavy viscous liquid, "B" - Clear low viscosity liquid Odor Threshold: "A" - 0.75 ppm: MMA Appearance: "A" - Strong Solvent Odor, "B" - Mild Active Oxygen Content: Odor: <1 % "A" - > 1.0, "B" - <1 (BUAC = 1) pH: Not Applicable Evaporation Rate: **Boiling Point:** "A" -100.5°C (212.9°F) Based on first boiling component: MMA "A" - Category 2, "B" - Category 4 Flammability: "B" Decomposes Flammability Limits: LEL: "A" - 1.6% based on MMA UEL: "A" - 12.5% based on MMA Flash Point: "A" 11.5°C (52.7°F) T.C.C. based on MMA, "B" 84°C (184°F) for BPC Specific Gravity: "A" 1.026@23°C (73°F) "B" 1.164@23°C (73°F) LEL & UEL: "B" - Not Established "A" - Slight in Water (MMA, MAA), "B" - Insoluble in Water Solubility: Vapor Pressure: "A" 29 mm Hg @ 20°C (68°F): MMA Auto-ignition Temperature: "A" 421°C (789.8°F): MMA, "B": Not Established "B" - N/E "A" - Not Applicable, "B" - 110°C (230°F) "A" - ≤ 50 g/l mixed, "B" - None Decomposition Temperature: "A" - >3 (Air = 1), "B" - N/E Vapor Density: VOC Content: SECTION 10 - STABILITY AND REACTIVITY Stability: Stable, unless heated None in normal use. Oxides of carbon, oxides of nitrogen, hydrogen chloride, hydrocarbons, Hazardous decomposition products: acrid smoke and gases upon combustion. Conditions to avoid: Keep away from direct sunlight, heat, sparks, open flame and other ignition sources. Incompatible Materials: Reducing and oxidizing agents and metal contaminants **SECTION 11 - TOXICOLOGICAL INFORMATION** Likely Routes of Exposure: Inhalation. Eve and Skin Contact Acute symptoms and effects: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages. Inhalation: Eve 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. May cause nausea, vomiting, diarrhea and mental sluggishness. Indestion: Chronic (long-term) effects: None known to humans LC50 Target Organs Toxicity: LD<sub>50</sub> Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit) Inhalation: 3 hrs. 7093 PPM (rat) STOT SE3 Methyl Methacrylate Monomer (MMA) Benzoyl Peroxide Oral: 6400 mg/kg (rat) Oral: 2 mg/l 96 hours (guppy) Reproductive Effects **Teratogenicity Mutagenicity** Sensitization to Product Synergistic Products Embryotyxicity Not Established Not Established Not Established Not Established Not Established Not Established **SECTION 12 - ECOLOGICAL INFORMATION** None known Ecotoxicity: Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of <50 g/l Degradability: Not Established **BioAccumulation:** Not Established SECTION 13 - WASTE DISPOSAL CONSIDERATIONS Follow local and national regulations. Consult local disposal expert. SECTION 14 - TRANSPORT INFORMATION Proper Shipping Name: Adhesives **EXCEPTION** for Ground Shipping Hazard Class: 3 Secondary Risk: DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package None UN 1133 Identification Number: Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Packing Group: PG II TDG INFORMATION Label Required: Class 3 Flammable Liquid FLAMMABLE LIQUID 3 Marine Pollutant: TDG CLASS: NO SHIPPING NAME: ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II **SECTION 15 - REGULATORY INFORMATION** Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia Precautionary Label Information: Highly Flammable, Harmful F, Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS) Symbols: Risk Phrases: R-11 Highly Flammable R-36/37/38 Irritating to eyes, respiratory system and skin R-43 May cause sensitization by skin contact. S-2 Keep out of reach of children S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Safety Phrases: S-3 Keep in a cool place S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection S-7 Keep container tightly closed S-46 If swallowed, seek medical advise immediately and show this container or label S-24/25 Avoid contact with skin and eyes. **SECTION 16 - OTHER INFORMATION** Specification Information: Department issuing data sheet: IPS, Safety Health & Environmental Affairs All ingredients are compliant with the requirements of the European E-mail address: <EHSinfo@ipscorp.com> Directive on RoHS (Restriction of Hazardous Substances). Training necessary: Yes, training in practices and procedures contained in product literature. Reissue date / reason for reissue: 12/23/2014 / Updated GHS Standard Format Intended Use of Product: Structural adhesive bonding 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.