

GHS SAFETY DATA SHEET

SCIGRIP[®] 10 Low VOC 2-Component Adhesive

Date Revised: JAN 2013 Supersedes: FEB 2012

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. Contain spill with sand or other inert adsorbent 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 ACGIH TLV ACGIH TLV ACGIH STEL OSHA STEL Methyl Ethyl Ketone (MEK) 20 ppm 100 ppm N/E Benzoyl Perxide 5 mg/m³ N/E 20 ppm skin N/E 20 ppm skin N/E Exposure Limitris: Weitarylic Acid 20 ppm skin N/E	SECTION I - PROD	UCT AND	COMPANY	<u>IDENTIFIC</u>	CATION						
Supplef: DAMUFACTURE: SCORP Smarter Adhesive Soutions: Bit Bit Book Duration (2770) Data Toxicity: Data Table Soutiants (2770) DBA Control (2770) Data Table Soutiants (2770) DBA PC. Book 12723, Research Triangle Park, NO 27700 - UBA Control (2700) DATA Table Soutiants (2700) Medical: Tel. 300.451 8346, 730 682 8703 382 6070 apr/(International) Description Description Description Description Data Toxicity: Category 3 Description Description Data Toxicity: Description	RODUCT NAME:	SCIGRIP® 1	0 Low VOC 2-	Component A	Adhesive (Re	efer to Techn	ical Data Shee	et for Mix ratio	D)		
Benergenergenergenergenergenergenergener	RODUCT USE:	2-Componer	nt Cartridge, hig	gh-strength, hi	gh viscosity,	reactive Struc	tural Adhesive				
SECTION 2 - HAZARDS IDENTIFICATION Environmental Physical Bris CLASSIFICATION: Edited by 1 Provide and the second by 1 Provide and the second by 1 Provide and the second by 1 Bris CLASSIFICATION: Edited by 1 Provide and the second by 1 Bris Classification: Category 1 Chronic Toxicity: Category 1 Provide and the second by 1 Provide and the s	SUPPLIER:	MANUFA					600 Ellis Road, Durham,NC 27703 - USA P.O. Box 12729, Research Triangle Park, N				- USA
HIS CLASSFICATION: Health Color Toxicly: Category 2 his formation: Category 2 his sensation: Category 2 his sensation: His his his his his his his his his his h	MERGENCY: Transportat	tion: CHEMTI	EL Tel. 800.25	5-3924, 813-24	48-0585 (Inte	ernational)	Medical: Tel.	800.451.8346	6, 760.602.870	3 3E Comp	any (International)
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Image: Image: Danger CONTROLLED PRODUCTOLASS D. DIVISION 28 25: Highly flammable liquid always District Statements Exacute Statements P33: - Canaes service any entition P33: - Canae service any entition P33: - Canaes service any entiton P33: - Canaes service any entition	Acute Toxicity: Skin Irritation: Skin Sensitization:	Category 4 Category 2 Category 1		-	/:	Category 3		Flammable L			2
High Tammade liquid any app and the table to be able of the table of table to be able to		(!)	OR	*	×	-	l:			,	
Section 3 - COMPOSITION/INFORMATION ON INCREDIENTS Component "A" (Base Resin) Component "A" (Catalyst-Initiator) Component "A" (Catalyst	H312 - Harmful in contact with s H315 - Causes skin irritation	and vapor skin	H319 - Causes H335 - May cau H336- May cau	use respiratory in se drowsiness or	ritation r dizziness	P260 - Do not	breathe vapor	-	P262: Do not ge	et in eyes, on	-
Component "A" (Base Resin) CASE ENECG P FEACH CONCENTRATION defly Methacrylate Monomer (MMA), "Stabilized 80-62-6 201-297-1 05-2116297731-37-0000 45-75 Component "B" (Catalysis-Initiator) 45-75 44-74 201-207-1 05-2116297728-24-0000 25'-60 Merry Enry Kinon (MKK) 79-43-3 201-159-0 05-2116297728-24-0000 25'-60 Marcia Pheroade (IPPO) 10 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. Ut 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. Section 4 - FIRST ADD MEASURES Contact with eyes: Inveloately with planty of vater for 15 minutes and seek medical advice immediately. Section 12: FIREFIGHTMOK MEASURES Dy chemical powder, carbon dioxide gas, foam, Halon, water fog. HMM MYPA 0.44mmal Substable Extinguishing Media: Dy chemical powder, carbon dioxide gas, foam, Halon, water fog. HMM MYPA 0.44mmal Unsultable Extinguishing Media: Dy chemical powder, carbon dioxide gas, foam, Halon, water fog. HMM MYPA 0.44mmal Unsultable Extinguishing Media: Dy chemical powder, carbon dioxide gas, f				•		•	lang				
Welnyl, Ketone (MEK) 78-95.3 201-159-0 05-2116297718-24-0000 25-60 Barcoyl Perovide (RPO)' 94-360 20:23-76 05-2116297715-21-0000 <12%	Component "A" (Base I Methyl Methacrylate Monor Methacrylic acid (MAA)	Resin) mer (MMA),* :			CAS# 80-62-6	EINECS # 201-297-1	Pre-registration 05-21162977	Number 31-37-0000	% by Weight 45 - 75	- -	
Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Flight-to-Know Act of 1986 (40CFR372). # # indicates that this chemical is builded to though on Proposition 65°L ist 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 shoped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rine mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice. Section 5 - FIREFICHTING MEASURES Section 312 of the California plowder, carbon dioxide gas, foam, Halon, water fog. Hult NPPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream. Health 2 1 Singht Unsuitable Extinguishing Media: Water spray or stream. Flammability 3 2 Moderate Combustion Products: Oxides of achon, oxides of nitrogen, hydrogen chloride Reactivity 2 2 Serieus Protection for Firefighters: Reep away from hads, spraks and open flame. Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment Provent contact with s	Methyl Ethyl Ketone (MEK)										
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 throughly with soap and water. If irritation develops, seek medical advice. Inpastion: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Sector 5 - FIREFIGHTING MEASURES Extinguishing Media: Dry chemical powder, carbon cloxide gas, foan, Halon, water fog. HMIS NFPA 0-Minimal Suitable Extinguishing Media: Dry chemical powder, carbon cloxide gas, foan, Halon, water fog. HMIS NFPA 0-Minimal Logatizable Extinguishing Media: Water spray or stream. Fiammability 3 2-Moderate Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride Reactivity 2 3-Serious Sector of - ACCIDENTAL FIELEASE MEASURES Self-contained breathing apparatus or full-face positive pressure air-supply masks. Sector or per water course. Environmental Precautions: Reep away from heat, sparks and open flame. Provide sociable verses (Meal or polycetry protective equipmer Prevent contact with skin or eyes (see section 8). Environmental Precautions: Prevent contact with skin or eyes (see section 8). Reep away from inpilidis sources, and ocheatly courded handing eq	*Indicates this chemical is a	subject to the	reporting requ	irements of Se	ction 313 of	the Emergenc	y Planning and	Community F	Right-to-Know /	Act of 1986	
Skin contact: Remove contaminated obthing and shoes. Wash skin throughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. It breathing is stopped, give artificial registricon. It breathing is difficult, give oxygen. Seek medical advice. Suitable Extinguishing Media: Dy tehnical powder, carbon dioxide gas, foan, Halon, water fog. HMIS NFPA 0 Afininal Unsuitable Extinguishing Media: Dy tehnical powder, carbon dioxide gas, foan, Halon, water fog. HMIS NFPA 0 Afininal Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride Reactivity 2 2 3 Series Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks. Set Set Sectron of a coccide soft carbon, oxides of nitrogen, hydrogen chloride Reactivity 2 2 3 Series Protection for Firefighters: Set-contained breathing apparatus or full-face positive pressure air-supply masks. Set Set Set SetConton 4 C LEASE MEASURES Provide sufficient venillation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment prevent contact with skin or eyes (see section 8). Throught with sand or other inert adsorbent material. Use non-sparking tools. Transter to a closable vessel (Wetal or polyethylene (PE)											
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Unsuitable Extinguishing Media: Water spray or stream. Health 2 2 1-Slight Exposure Hazards: Inhalation and dermal contact Flammability 3 3 2-Moderate Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride Reactivity 2 2 3-Serious Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks. 4-Severe Section for A COLDENTAL RELEASE MEASURES Reep 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 severs, 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. Transfer to a closable vessel (Metal or polyethylene [PE]) Sectron 7 - HANDLING AND STOREE Handling: Avoid breathing of vapor, avoid contact with weys, 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*-(10*-27*G). Store in ventilated room or shade and away from direct sunlight. Keep c											
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hydrocarbons, acrid smoke and loxic gases. 4-Severe Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks. SECTION 6 - ACCIDENTAL RELEASE MEASURES Previde 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: Ree away from heat, sparks and open flame. Prevent contact with skin or eyes (see section 8). Transfer to a closable vessel (Metal or polyethylen [PE]) SECTION 7 - HANDLING AND STORGE Transfer to a closable vessel (Metal or polyethylen [PE]) SECTION 7 - HANDLING AND STORAGE Storage: Handling: Avoid breathing of yapor, avoid contact with eyes, skin and dothing. 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° + (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 ACGHTLV ACGHTLV ACGHTSLV Store break as to meeded. Methyl Hyly Kehone (MEK)	Exposure Hazards:	.g moutur	Inhalation an	d dermal conta							-
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practices and procedures are used for making structural bonds.	Eye Protection:	Avoid contact Prevent cont	t with eyes, we act with the sk	in as much as	possible. Bu	utyl rubber glo	ves should be	used for frequ	ent immersion.		
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.	Respiratory Protection:	practices an Use in a wel	d procedures a I-ventilated roc	are used for ma om. Use local e	aking structur exhaust venti	ral bonds. lation to remo	ve airborne cor	ntaminants fro	m employee br	reathing zor	ne



GHS SAFETY DATA SHEET

SCIGRIP[®] 10 Low VOC 2-Component Adhesive

Date Revised: JAN 2013 Supersedes: FEB 2012

SECTION 9 - PHYS						
Appearance: Odor:		te, viscous liquid; ' d odor. "B" Ketone	'B" Clear, syrupy liquid	Odor Threshold:	"A" 0.75 ppm (MMA) "B" 5.4 ppm (MEK)	
pH:	Not App			Active Oxygen Content:		
Boiling Point:	"A" 100	5℃ (212.9°F) Based	on first boiling component: MMA	Evaporation Rate:	"A" > 1.0 (BUAC = 1), "B	
Flash Point:		(176 °F) based on ME	:ĸ ased on MMA, "B" -9℃ (15.8°F) for N	Flammability:	"A" Category 2, "B" Cate LEL: "A" 1.6 (MMA), "B	
Specific Gravity:		3 @23℃ (73°F), "B"			UEL: "A" 12.5(MMA), "E	
Solubility:			B" 27.5%/MEK @ 20℃ (68°F)		(),	()
Auto-ignition Tempe			B" 404℃ (759°F): MEK	Vapour Pressure:	"A" 29 mm Hg @ 20 ℃ (68°F): MMA
Decomposition Tem		A, "B" - N/A		Man and Danaitan	"B" 78. mm Hg for MEK	_
VOC Content:		g/I mixed, "B" N/E		Vapour Density:	"A" > 3 Air = 1), "B" - N/E	-
ECTION 10 - STA Stability:	BILITY AND REA	Stable				
Hazardous decompo	sition products:	None in normal	use. Oxides of carbon, oxides of nitro	gen, hydrogen chloride, hydro	ocarbons,	
Conditions to avoid: Incompatible Materia			nt, heat, temperatures above 29 °C (85 ts and metal contaminants	°F), sparks, open flame and	other ignition sources.	
ECTION 11 - TOX	ICOLOGICAL IN	ORMATION				
kely Routes of Exposur	e: Inhalatio	n, Eye and Skin Con	tact			
cute symptoms and effe	ects:					
Inhalation:			dizziness, headache. Can cause dro			
Eye Contact:			re may result in severe eye injury with	•		ne liquid.
Skin Contact:			resulting in skin irritation. Dermatitis	may occur with prolonged co	ntact.	
Ingestion: hronic (long-term) effec	May cause nausea, vo	own to humans	mental sluggistitiess.			
oxicity:		LD50		LC ₅₀	Та	get Organs
ethyl Methacrylate Monor	mer (MMA)		g (rat), Dermal: >35000 mg/kg (rabbit			STOT SE3
ethyl Ethyl Ketone (MEK)	. ,	Ű	g (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 m	()	STOT SE3
enzoyl Peroxide		Oral: 6400 mg/k	ag (rat)	Oral: 2 mg/l 96 hours (gup	ру)	
Methacrylic Acid		Oral: 1600 mg/k	ag (rat), Dermal: 500 mg/kg (rabbit)	Inhalation: 6.7 mg/l (rat)	S	STOT SE3
Reproductive Effects	Teratogenicity	Mutagen	icity Embryotyxicity	Sensitization to Product	Synergistic Product	ts
Not Established	Not Established	Not Establ	ished Not Established	Not Established	Not Established	
Ecotoxicity: Mobility:	None known In normal use, emissio		ished Not Established	Not Established ace, typically at a rate of ≤ 50	Not Established	
ECTION 12 - ECC Ecotoxicity: Mobility: Degradability: BioAccumulation:	DLOGICAL INFOR None known In normal use, emissio Not Established Not Established	MATION	compounds (VOC's) to the air takes pl			
ECTION 12 - ECC Ecotoxicity: Mobility: Degradability: BioAccumulation:	DLOGICAL INFOF None known In normal use, emissio Not Established Not Established STE DISPOSAL C	MATION In of volatile organic of ONSIDERATIO	compounds (VOC's) to the air takes pl			
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ECTION 12 - ECC Ecotoxicity: Mobility: Degradability: BioAccumulation: ECTION 13 - WAS Follow local and national ECTION 14 - TRAI	DIOGICAL INFOR None known In normal use, emissic Not Established Not Established STE DISPOSAL C al regulations. Consult NSPORT INFORI	IMATION In of volatile organic of ONSIDERATIOI ocal disposal expert. IATION	compounds (VOC's) to the air takes pl			
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ECTION 12 - ECC Ecotoxicity: Mobility: Degradability: BioAccumulation: ECTION 13 - WAS Follow local and nationa ECTION 14 - TRAI Proper Shipping Name: Hazard Class: Secondary Risk	DiogiCAL INFOR None known In normal use, emissio Not Established Not Established STE DISPOSAL C al regulations. Consult NSPORT INFORI Adhesiv 3 None	IMATION In of volatile organic of ONSIDERATIOI ocal disposal expert. IATION PS	NS EXCEP T Limited Quantity: Up to 5L per ini	ace, typically at a rate of <u><</u> 50 T ION for Ground Shipping Ter packaging, 30 kg gross w) g/l veight per package.	
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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.