# TECHNICAL DATA SHEET

# **CGRIP** SMARTER ADHESIVE SOLUTIONS

SG300 Series Methacrylate Adhesives

## DESCRIPTION

SCIGRIP<sup>™</sup> SG300 Series Methacrylate Adhesives are two-component, 10:1 mix ratio products for bonding metals, composites and other plastic parts<sup>1</sup>. Most metals can be bonded without priming<sup>2</sup>. These advanced products are designed to meet specific requirements of the transportation industry, including reduced read through on show surfaces. The combination of minimum surface preparation<sup>1, 2</sup>, primerless metal bonding and low read through makes the SG300 series products ideal for a variety of assembly operations. Packaging options include 50 and 490 ml cartridges and 5 and 50 gallon (19 and 189 liters) bulk containers for application with meter-mix dispense equipment.

### **PERFORMANCE BENEFITS**

<ul> <li>Primerless metal bonding</li> </ul>	No surface treatment or primers required for most metals <sup>2</sup>
<ul> <li>Reduced bond line read through</li> </ul>	Reduced post finishing requirements
• Choice of 5, 15 and 40 minute working times	Selection to fit application and process requirements
<ul> <li>Non-sag application characteristics</li> </ul>	Facilitates application on non-level surfaces
<ul> <li>Excellent environmental resistance</li> </ul>	Permanent bonds in harsh operating environments
<ul> <li>Permanent toughness</li> </ul>	Excellent fatigue, impact and shock load resistance

### TYPICAL ADHESIVE CHARACTERISTICS @ 75°F (24°C)

Characteristics	Part A (Adhesive)	Part B (Activator)	Mix (Part A + B)
Color	Off White	Black or Off White	Black or Off White
Mix ratio by volume	10	1	—
Mix ratio by weight	8.75	1	—
Density, g/cc	1.01	1.15	1.02
Density, lb/gallon	8.40	9.60	8.51
Viscosity, cps	190,000 – 250,000	50,000 - 150,000	—

### TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

Tensile Strength psi (MPa)	2,000 - 2,200 (14 - 15)	Lap Shear Strength <sup>4</sup> psi (MPa)	2,500 – 2,800 (17 – 19)
Maximum Tensile Elongation (%)	100 – 125	Service Temperatures °F (°C)	-40 to 180 (-40 to 82)
Tensile Modulus <sup>3</sup> psi (MPa)	30,000 - 40,000 (207 - 276)		

### **RECOMMENDED SUBSTRATES**

Composites	Metals <sup>2</sup>	Thermoplastics <sup>1</sup>		
🗸 Ероху	🗸 Aluminum	✓ ABS		
✓ Polyester & DCPD Modified	✓ Carbon Steel	✓ Acrylics		
✓ Vinyl Ester	✓ Stainless Steel	✓ PVC/CPVC		
✓ Gelcoats	✓ Coated Metals	✓ Styrenics		

### PRODUCT PROPERTIES @ 75°F (24°C) – Fixture Time (time to achieve 200 psi or 1.4 MPa strength in lap shear)<sup>4</sup>

Cartridge	Adhesive / Activator	Working Time (minutes)	Fixture Time (minutes)
SG300-05	SG305 A / SG605 B	4 - 6	>15
SG300-15	SG315 A / SG605 B	13 – 17	>30
SG300-40	SG340 A / SG605 B	35 – 45	>80

NOTES:

1. Polyolefins, thermoplastic polyesters, fluorocarbon plastics and other low surface energy plastics are generally not bondable.

2. Prepare metal by removing dust, loose scale, rust and other surface residue including oil and grease. For maximum bond strength on steel, abrade surface prior to bonding. See important notes a, b and c on reverse side.

3. Tensile modulus as measured in the linear portion of the stress strain curve.

4. Lap shear strength of unprimed aluminum to aluminum bond based on ASTM D 1002 method.

## **GRIP** SMARTER ADHESIVE SOLUTIONS

#### **SAFETY AND HANDLING**

Read Material Safety Data Sheet before handling or using this product. Adhesive components contain methyl methacrylate monomer and are flammable. Always use in a well-ventilated area. Floor-level extraction and large quantities of moving air greatly facilitate ventilation. Both materials must be stored in a cool place away from sources of heat and open flames or sparks. Keep containers closed when not in use. Prevent contact with skin and eyes. In case of skin contact, wash with soap and water. In case of eye contact, flush with water for 15 minutes and seek immediate medical attention. Harmful if swallowed. Keep out of reach of children.

#### MIXING AND APPLICATION

EXOTHERM: The chemical curing reaction that occurs when components A and B are mixed generates heat. The amount of heat generated is dependent on the mass and thickness of the mixed product. Large masses over 1.5 inch (39 mm) thick can develop heat in excess of 250°F (121°C) and can generate vapors that should be avoided from direct personal contact.

#### CURING

Open working time is the approximate time after mixing components A and B, depending on bonding conditions, that the adhesive remains fluid and bondable. Fixture time is the approximate time after mixing components A and B required for the adhesive to react the partial state of cure necessary to allow careful movement, unclamping or de-molding of assembled parts. Parts can generally be put in service when 80 percent of full strength is developed. The time to achieve 80% cure is approximately 2-3 times that required for fixturing. The working and fixture times presented in this bulletin are based on laboratory tests performed at 75°F (24°C). Higher temperatures speed the curing reaction and reduce open working time. The reverse is true for lower temperatures. If significant variation in temperatures or application at very high or low temperatures is anticipated, contact your SCIGRIP representative for technical assistance.

#### **DISPENSING EQUIPMENT**

Dispensing from disposable cartridges or meter-mix dispense equipment is highly recommended. Both methods employ convenient static motionless mixer technology. Product supplied in pre-measured cartridges is dispensed from approved manual or pneumatic powered guns. While using pneumatic dispensing guns, it is mandatory to use the gun's regulator to regulate the air pressure. Manufacturers recommended maximum operating pressure and maximum compressed air supply pressure are 85 and 120 psi respectively. Removal of the regulator from the dispensing unit can lead to over pressurizing and rupture of the cartridge cylinder. Contact your SCIGRIP representative for information and availability.

When meter-mix dispense systems are used, care must be taken to assure compatibility between the adhesive components and the materials in the equipment that they contact. All wetted metal components should be constructed of stainless steel, aluminum or a sufficient thickness of chemically resistant material that prevents contact between the adhesive components and the base metal. Contact with copper, brass, zinc or alloys containing these materials must be strictly avoided. All non-metallic seals and gaskets should be fabricated from Teflon<sup>®</sup>, or polyethylene based materials. Natural rubber, nitrile rubber (BUNA), neoprene and Viton<sup>®</sup> are not acceptable.

#### **APPLICATION**

Follow instructions provided or contact your SCIGRIP representative for proper preparation of dispensing equipment and substrates prior to starting the bonding process. Always dispense a quantity of adhesive at start-up to assure that the adhesive exiting the tip of the mixer is the proper color and is uniform, without streaks. If aged material is being used, allow the purged material to cure to assure quality before proceeding. Carefully dispense a sufficient quantity of adhesive on the substrate to assure that the bond gap will be completely filled when the parts are mated. Allow for squeeze-out at the edges of the bond to assure filling. Carefully secure or clamp parts to prevent joint movement while the adhesive sets. Do not apply excessive pressure that can cause excessively thin gaps and starve the bond line. If in doubt, use shims or spacers to set the gap. A minimum gap of 0.02 inch (0.50 mm) is recommended for all other adhesives. Test the curing adhesive at the edges for fingernail hardness before removing clamps or fixtures. If clean up of the adhesive from the bonded area is required, we recommend that it is carefully performed using alcohol or other preferred industrial solvent while the adhesive is still wet or soft. Partially cured adhesive can be carefully removed with a sharp knife. Cured adhesive must be sanded or scraped, using a suitable solvent to remove remaining traces.

#### **CLEAN UP**

Adhesive components and mixed adhesive should be removed from mixing and application equipment with a suitable industrial solvent or cleaner before the mixed adhesive cures. Once the adhesive cures, soaking in a strong solvent or paint remover will be required to soften the adhesive for removal. If the bonds are exposed to UV rays then use of plasticizers such as Benzoflex 2088 is recommended, or contact your SCIGRIP representative for additional information. Any clean-up of the bonded assembly using industrial solvents is not recommended as it could affect the cure.

#### **STORAGE AND SHELF LIFE**

The shelf life of components A and B in unopened containers is approximately six months from the date the product is shipped from SCIGRIP facilities. Shelf life is based on steady state storage between 55°F and 80°F (13°C and 27°C). Exposure, intermittent or prolonged, above 80°F (27°C) will result in a reduction of the stated shelf life. Exposures above 100°F (38°C) during shipping or storage can quickly degrade component B in cartridges or bulk containers, and must be prevented. Shelf life of both components can be extended by air-conditioned or refrigerated storage between 50°F and 65°F (10°C and 18°C). KEEP FROM FREEZING.

#### **IMPORTANT NOTES**

- a. SUBSTRATE AND APPLICATION COMPATIBILITY: The user must determine the suitability of a selected adhesive for a given substrate and application. SCIGRIP strongly recommends laboratory, shop and end-use testing that simulates the actual manufacturing and end-use environment.
- b. SURFACE PREPARATION: The need for surface preparation must be determined by comparative testing of prepared and unprepared substrates to assure that unprepared bonding is equivalent to or acceptable for the application relative to prepared bonding. Initial bonding tests must be followed up with simulated or actual durability tests to assure that surface conditions do not lead to degradation of the bond over time under service conditions. Subsequent changes in substrates or bonding conditions will require re-testing.
- c. TECHNICAL ASSISTANCE: Contact your SCIGRIP representative for questions or assistance with the selection of adhesives and methods for evaluating adhesives for your intended application.

**NOTE:** This product is intended for use by skilled individuals at their own risk. Recommendations contained herein are based on information we believe to be reliable. The properties and strength values presented above are typical properties obtained under controlled conditions at the SCIGRIP laboratory. They are intended to be used only as a guide for selection for end-use evaluation. The ultimate suitability for any intended application must be verified by the end user under anticipated test conditions. Since specific use, materials and product handling are not controlled by SCIGRIP, our warranty is limited to the replacement of defective SCIGRIP products.

scigrip.com





### GHS SAFETY DATA SHEET

#### SCIGRIP<sup>™</sup> SG340A Adhesive

Date Revised: JUL 2011 Supersedes: MAR 2011

### SECTION I - PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NAME: SCIGRIP™ SG340A

PRODUCT USE: SUPPLIER:

Component "A" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates

#### MANUFACTURER: IPS Corporation

600 Ellis Road, Durham, NC 27703 - United States P.O. Box 12729, Research Triangle Park, NC 27709 - USA Tel. 1-919-598-2400 Medical: Tel 800 451 8346 760 602 8703 3E Company (International)

EMERGENCY: Transportation: Tel. 800.424.9300, 703.527.3887 CHEMTREC (International)

SECTION 2 - HAZARDS IDE	· · · · · · · · · · · · · · · · · · ·					00 02 00	
GHS CLASSIFICATION:							
GHS CLASSIFICATION:           Health           Acute Toxicity:         Category 4           Skin Irritation:         Category 2           Skin Sensitization:         Category 1           Eye:         Category 2	Acute Toxicity Chronic Toxici		al Category 3 Category 4	Flammable Liqu	Physical uid:	Category 2	
GHS LABEL:	or 🔥	×	Signal Word: Danger	WHMIS CLASSIF		,	
Hazard H225 - Highly flammable liquid and vapo H335 - May cause respiratory irritation H315 - Causes skin irritation H317 - May cause an allergic skin react	H302 - Harmful if swallowed		P260 - Do n P262: Do no	Precau o container tightly ot breathe vapor ot get in eyes, on only outdoors or	skin, or on	clothing	3
SECTION 3 - COMPOSITION	I/INFORMATION ON I	NGREDIEN					
Methyl Methacrylate Monomer (MMA),* Methacrylic Acid (MAA) Styrene*	CAS# Stabilized 80-62-6 79-41-4 100-42-5	EINECS # 201-297-1 201-204-4 202-851-5	REACH Pre-registration Number 05-2116297731-37-0000 05-2116297727-26-0000 05-2116297733-33-0000		CENTRATIC by Weight 55 - 65 < 10 < 4		
All of the constituents of this adhesive p *Indicates this chemical is subject to the	reporting requirements of Se						
SECTION 4 - FIRST AID ME	ASURES						
Skin contact: Remove cor Inhalation: Remove to f	nmediately with plenty of wat taminated clothing and shoes resh air. If breathing is stopp with water. Give 1 or 2 glass	s. Wash skin i ed, give artifici	thoroughly with soap and wa al respiration. If breathing is	ter. If irritation de difficult, give oxy	gen. Seek	medical adv	vice.
SECTION 5 - FIREFIGHTING	MEASURES						
Suitable Extinguishing Media: Unsuitable Extinguishing Media: Exposure Hazards: Combustion Products: Protection for Firefighters:	Dry chemical powder, carbo Water spray or stream. Inhalation and dermal conta Oxides of carbon, oxides of hydrocarbons, acrid smoke Self-contained breathing ap	ct nitrogen, hydr and gases.	· · · · ·	Health Flammability Reactivity Ipply masks.	HMIS 2 3 2	<b>NFPA</b> 2 3 2	0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe
SECTION 6 - ACCIDENTAL	RELEASE MEASURES						
Personal precautions: Environmental Precautions: Methods for Cleaning up:	Keep away from heat, spark Provide sufficient ventilation Prevent contact with skin or Prevent product or liquids co	ks and open fla , use explosio eyes (see sec ontaminated w her inert adsor	n-proof exhaust ventilation e ction 8). <i>v</i> ith product from entering se 'bent or absorbent material.	wers, drains, soil	or open wa		rotective equipment.
SECTION 7 - HANDLING AN	D STORAGE						
Do not eat, drink or smoke Storage: Store in ventliated room of	ources, use only electrically g	rounded hand	p container tightly closed wh	en not in use.			

### SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
	Methyl Methacrylate Mon.	50 ppm	100 ppm	100 ppm	N/E
	Methacrylic Acid	20 ppm skin	N/E	20 ppm skin	N/E
	Styrene	50 ppm	100 ppm	100 ppm	200 ppm

Engineering Controls: Use local exhaust as needed. 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: 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 are approached, use respiratory protection equipment.



## **GHS SAFETY DATA SHEET**

### SCIGRIP™ SG340A Adhesive

Date Revised: JUL 2011 Supersedes: MAR 2011

SECTION 9 - PHYS	Off-white, vise			Odor Threshold:	0.75 ppm: MMA	
Appearance: Odor:	Strong Solver			Evaporation Rate:	> 1.0 (BUAC = 1)	
pH:	Not Applicabl			Flammability:	Category 2	
Boiling Point:		9 °F) Based on first boiling o	component: MMA	Flammability Limits:	LEL: 1.6% based on MMA	
Flash Point:		ℜ) T.C.C. based on MMA			UEL: 12.5% based on MMA	
Specific Gravity:	1.010 @23℃			Vapor Pressure:	28 mm Hg @ 20 ℃ (68 °F): MI	ЛА
Solubility:		er (MMA, MAA)		Vapor Density:	> 3.0 (Air = 1)	
Auto-ignition Tempe	0			VOC Content :	<u>&lt;</u> 50 g/l mixed	
Decomposition Tem						
	BILITY AND REACT					
Stability: Hazardous decompo		Stable, unless heated				
nazaruous decompo	•	None in normal use. Oxides acrid smoke and gases.	s of carbon, oxides of hitrog	jen, nyurocarbons,		
Conditions to avoid:			ight host sparks open fla	me and other ignition sources		
Incompatible Materia		Reducing and oxidizing age			».	
-				5		
SECTION 11 - TOX ikely Routes of Exposu		Ve and Skin Contact				
Acute symptoms and effe		e and Skin Contact				
Inhalation:		result in nausea dizziness	headache. Can cause dro	wsiness, irritation of eyes and	d nasal passages	
Eve Contact:					nmation on contact with the liqui	d
Skin Contact:	1 0 7		, , ,	nay occur with prolonged con		
Ingestion:		ig, diarrhea and mental slug		ay soour war proioriged con	nuot.	
Chronic (long-term) effec		•	9000000			
Toxicity:		D50		LC50		
Methyl Methacrylate Monor		g/kg (rat), Dermal: >35000 n	na/ka (rabbit) Inhalatio	n: 3 hrs. 7093 PPM (rat)		
Methacrylic Acid (MAA)			,	n: 6.7 mg/l (rat)		
• • • •		g/kg (rat), Dermal: 500 mg/k	0 ( )	0 ( )		
Styrene	Oral: 2650 m	· ·	- i	n: 12000 PPM (rat)	I	-
Reproductive Effects Not Established	<u>Teratogenicity</u> Not Established	<u>Mutagenicity</u> Not Established	Embryotoxicity Not Established	Sensitization to Produce Not Established	t Synergistic Products Not Established	
NOT L'STADIISTIEU	NUL Established	NUL Established	NOT LStabilished	NOT Established	NUL Established	
		TION				
		TION				
Ecotoxicity:	None known		(VOC's) to the air takes al	$r_{\rm res}$ turning line at a rate of $\sim 50$	a/l	
Ecotoxicity: Mobility:	None known In normal use, emission of		(VOC's) to the air takes pla	ace, typically at a rate of $\leq$ 50	g/l	
Ecotoxicity: Mobility: Degradability:	None known In normal use, emission of Not Established		(VOC's) to the air takes pla	ace, typically at a rate of <u>&lt;</u> 50	g/l	
Ecotoxicity: Mobility: Degradability: Bioaccumulation:	None known In normal use, emission of Not Established Not Established	volatile organic compounds	(VOC's) to the air takes pla	ace, typically at a rate of $\leq$ 50	gЛ	
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS	None known In normal use, emission of Not Established Not Established STE DISPOSAL CON	volatile organic compounds	(VOC's) to the air takes pla	ace, typically at a rate of <u>&lt;</u> 50	gЛ	
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Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and nationa SECTION 14 - TRA Proper Shipping Name:	None known In normal use, emission of Not Established STE DISPOSAL CON Il regulations. Consult local of NSPORT INFORMAT Adhesives	volatile organic compounds SIDERATIONS disposal expert. ION DOT Limite	EXCE	PTION for Ground Shipping	veight per package.	
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and nationa SECTION 14 - TRA Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number:	None known In normal use, emission of Not Established STE DISPOSAL CON Il regulations. Consult local of NSPORT INFORMAT Adhesives 3 None UN 1133	volatile organic compounds SIDERATIONS disposal expert. ION DOT Limite	EXCE	PTION for Ground Shipping	-	M-D" .
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Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and nationa SECTION 14 - TRAI Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required:	None known In normal use, emission of Not Established STE DISPOSAL CON Il regulations. Consult local of MSPORT INFORMAT Adhesives 3 None UN 1133 PG II Class 3 Flam	volatile organic compounds SIDERATIONS disposal expert. ION DOT Limite Consumer	EXCE ed Quantity: Up to 5L per in Commodity: Depending o T	PTION for Ground Shipping nner packaging, 30 kg gross n packaging, these quantities DG INFORMATION	weight per package. s may qualify under DOT as "OR	M-D" .
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Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and nationa SECTION 14 - TRAI Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Inf	None known In normal use, emission of Not Established STE DISPOSAL CON Il regulations. Consult local of MSPORT INFORMAT Adhesives 3 None UN 1133 PG II Class 3 Flam NO SULATORY INFORM/ ormation: Highly Flamm F, Xn R-11 Highly Flammable	volatile organic compounds SIDERATIONS disposal expert. ION DOT Limite Consumer mable Liquid ATION hable, Harmful	EXCE ed Quantity: Up to 5L per in Commodity: Depending o T TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA AICS,	PTION for Ground Shipping nner packaging, 30 kg gross n packaging, these quantities DG INFORMATION FLAMMABI ADHESIVE GROUP: UN 1133, P TSCA, Europe EINECS, Car	weight per package. s may qualify under DOT as "OR LE LIQUID 3 S 'G II	M-D" .
Ecotoxicity: Mobility: Degradability: Bioaccumulation: SECTION 13 - WAS Follow local and nationa SECTION 14 - TRAI Proper Shipping Name: Hazard Class: Secondary Risk: Identification Number: Packing Group: Label Required: Marine Pollutant: SECTION 15 - REC Precautionary Label Inf Symbols:	None known In normal use, emission of Not Established STE DISPOSAL CON Il regulations. Consult local of MSPORT INFORMAT Adhesives 3 None UN 1133 PG II Class 3 Flam NO CULATORY INFORM/ ormation: Highly Flammable R-36/37/38 Irritating to eye	volatile organic compounds SIDERATIONS disposal expert. ION DOT Limite Consumer mable Liquid ATION able, Harmful is, respiratory system and sk	EXCE ed Quantity: Up to 5L per in Commodity: Depending o T TDG CLASS: SHIPPING NAME: UN NUMBER/PACKING Ingredient Listings: USA AICS,	PTION for Ground Shipping nner packaging, 30 kg gross n packaging, these quantities DG INFORMATION FLAMMABI ADHESIVE GROUP: UN 1133, P TSCA, Europe EINECS, Car	weight per package. s may qualify under DOT as "OR LE LIQUID 3 S 'G II	M-D" .
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	ARTER HESIVE UTIONS	SCIC	GRIP™	SG605B	-B Activ	vator		Date Revised Supersedes:	MAR 2011
SECTION I - PROD	UCT AND COMPAN		ATION						
RODUCT NAME:	SCIGRIP™ SG605B	8-В							
RODUCT USE:	Component "B" of a 2-Cor	nponent Adhesiv	e for Thermo	oset Composite	s, Plastics and	d other substrate	es		
SUPPLIER:				ACTURER:	P.O. Box 12 Tel. 1-919-5	ad, Durham, NC 729, Research 7 98-2400	Friangle Par	k, NC 2770	
	ation: Tel. 800.424.9300, 70		MIREC (Inte	ernational)	Medical: Tel	1. 800.451.8346	, 760.602.8	703 3E Com	npany (International)
SECTION 2 - HAZI	ARDS IDENTIFICATI	ON							
Health			Enviror	nmental			Physical		
Acute Toxicity:	Category 5	Acute Toxicity:		None		Flammable Liq	uid:	Category 4	
Skin Irritation: Skin Sensitization:	None None	Chronic Toxicity		None					
Eye:	Category 2								
HS LABEL:	OR OR	×		Signal Word: Warning		WHMIS CLASSIF	FICATION:	Not Regula	ited
	Hazard Statements					Precauti	onary State	ments	
1317 - May cause an aller	gic skin reaction			P233 - Keep c				only outdoor	s or in a well-ventilated area
					get in eyes, or	n skin, or on clot	hing		
SECTION 3 - COM	POSITION/INFORMA	CAS#	GREDIEN EINECS #	NIS REA	СН	CO	NCENTRATIO	2N	
				Pre-registrat			% by Weight		
enzoyl Peroxide (BPO)*		94-36-0	202-327-6	05-21162977			<15%		
	is adhesive product are liste subject to the reporting requ								
	T AID MEASURES			le Emergency i	nanning anu v		11-10-1110007		(400FH372).
Contact with eyes: Skin contact: Inhalation: Ingestion:	Flush eyes immediately wi Remove contaminated clo Remove to fresh air. If bre Rinse mouth with water. C	thing and shoes. eathing is stopped	Wash skin t d, give artifici	thoroughly with	soap and wat f breathing is	ter. If irritation d difficult, give ox	evelops, se ygen. Seek	medical ad	vice.
•	FIGHTING MEASUR	•				0			,
Suitable Extinguishing		l powder, carbon	dioxide gas,	, foam, Halon, v	ater fog		HMIS	NFPA	0-Minimal
Unsuitable Extinguishi	•		-		-	Health	1	1	1-Slight
Exposure Hazards: Combustion Products:		nd skin contact rbon, oxides of n	itrogen			Flammability Reactivity	1	1	2-Moderate 3-Serious
Protection for Firefight		ed breathing appa		face positive p	essure air-su			·	4-Severe
ECTION 6 - ACC	IDENTAL RELEASE	MEASURES							
Personal precautions:		rom heat, sparks cient ventilation,			protective eau	upment.			
	Prevent cont	tact with skin or e	yes (see sec	ction 8).					
Environmental Precauti Methods for Cleaning u		duct or liquids cor h sand or other ir						ater course.	
	DLING AND STORAC		nd clothing						
	rom ignition sources, and er			ne exhaust hoo	ds.				
Storage: Store in vent	Irink or smoke while handlin liated room or shade and av	way from direct su	0		(	/ 1			
	rom ignition sources and inc	•							
ECTION 8 - PREV	Component		ACGIH STEL	OSHA PEL	OSHA STEL				
	Benzoyl Peroxide	5 mg/m <sup>3</sup>		5 mg/m <sup>3</sup>	JOIN OF LL	+			
Engineering Controls: Monitoring: Personal Protective Equ	Use local exhaust as need Maintain breathing zone ai		tions below	exposure limits	1	-			
Eye Protection:	Avoid contact with eyes, w								side shields,
Skin Protection:	Prevent contact with the sl Use of latex/nitrile surgical practices and procedures	gloves or solven are used for mak	t-resistant ba ing structura	arrier cream sho I bonds.	ould provide a	dequate protect	ion when no	ormal adhes	
Respiratory Protection:	Use in a well-ventilated roc and to keep contaminants When limits approached, u	below levels liste	d above. W	ith normal use,					

