



MATERIALS SAFETY DATA SHEET

Eco-Grip® SpeedFlex™ Adhesive

Date Revised: SEP 2019
Supercedes: FEB 2016



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SpeedFlex™
PRODUCT USE: Component "A" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates
SUPPLIER:
MANUFACTURER: Allied Industries International, Inc.
1088 Old Gaffney Highway
Jonesville, SC 29353
Tel. 864-674-0018

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 4	Acute Toxicity:	Category III	Flammable Liquid:	Category 2
Skin Irritation:	Category 3	Chronic Toxicity:	Category IV		
Skin Sensitization:	YES				
Eye:	Category 2B				

GHS LABEL:



Signal Word:
Danger

WHMS CLASSIFICATION: CLASS B, DIVISION 2
CONTROLLED PRODUCT CLASS D, DIVISION 2B

Hazard Statements	Precautionary Statements
H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P403 Store in a well-ventilated place.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS #	EINECS #	REACH		CONCENTRATION
			Pre-registration Number	% by Weight	
Methyl Methacrylate Monomer (MMA),* Stabilized	80-62-6	201-297-1	05-2116297731-37-0000		40 - 70
Methacrylic Acid (MAA)	79-41-4	201-204-4	05-2116297727-26-0000		1 - 10
Acrylate Phosphate Esters	Proprietary	Proprietary	Proprietary		0.1 - 5

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 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.

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

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.

Chronic (long-term) effects: (MMA) The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

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
Combustion Products: Oxides of carbon, oxides of nitrogen, hydrogen chloride hydrocarbons, acid smoke and gases.

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure air-supply masks.

	HMS	NFPA	
Health	2	2	0-Minimal
Flammability	3	3	1-Slight
Reactivity	2	2	2-Moderate
			3-Severe
			4-Severe

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.
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 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 STEL	OSHA PEL	OSHA STEL	OSHA Ceiling	CAL/OSHA PEL	CAL/OSHA STEL	CAL/OSHA Ceiling
	Methyl Methacrylate Mon.	5 mg/m ³	N/E	5 mg/m ³	N/E	N/E	50 ppm	100 ppm	N/E
	Methacrylic Acid	20 ppm skin	N/E	20 ppm skin	N/E	N/E	20 ppm skin	N/E	N/E

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.



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Eco-Grip® SpeedFlex™ Adhesive

Date Revised: SEP 2019

Supersedes: FEB 2016



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Color matched, viscous liquid	Active Oxygen Content:	<1 %
Odor:	Mild	Evaporation Rate:	<1
pH:	Not Applicable	Flammability:	Category 4
Boiling Point:	Not Established	Flammability Limits:	LEL: Not Established UEL: Not Established
Flash Point:	84°C (184°F) for BPO	Vapor Pressure:	Not Established
Specific Gravity:	1.130 @23°C (73°F)	Vapor Density:	Not Established
Solubility:	Insoluble in Water	VOC Content:	None
Auto-ignition Temperature:	Not Established		
Decomposition Temperature:	110°C (230°F)		

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable
 Hazardous decomposition products: None in normal use. Oxides of carbon.
 Conditions to avoid: Keep away from direct sunlight, heat, sparks, open flame and other ignition sources.
 Incompatible Materials: Strong acids and alkalis, reducing agents and metal contaminants

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ LC₅₀
 Benzoyl Peroxide Oral: 6400 mg/kg (rat) Oral: 2 mg/l 96 hours (guppy)

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
None	None	None	Not Established	None	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None known
 Mobility: Not Established
 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: Not Regulated
 Hazard Class: Not Regulated as a hazardous material
 Secondary Risk: None
 Identification Number: None
 Packing Group: Not Regulated
 Label Required: Not Regulated
 Marine Pollutant: NO

TDG INFORMATION	
TDG CLASS:	Not Regulated
SHIPPING NAME:	Not Regulated
UN NUMBER/PACKING GROUP:	Not Regulated

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Irritant
 Symbols: Xi
 Risk Phrases: R-36/37/38 Irritating to eyes, respiratory system and skin.
 Safety Phrases: S-2/3 Keep in a cool place, out of reach of children.
 S-7 Keep container tightly closed when not in use.
 S-15/16 Keep away from heat and sources of ignition. No smoking.
 S-24/25 Avoid contact with skin and eyes.
 S-35 Dispose of material and container in a safe way.

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)

S-29 Do not empty into drains, storm drains or watercourses.
 S-37/39 Wear suitable gloves and eye protection.
 S-45 If seeking medical advice show physician label or SDS.
 S-51 Use only in well ventilated areas.

SECTION 16 - OTHER INFORMATION

Specification Information:
 Department issuing data sheet: IPS, Safety Health & Environmental Affairs
 E-mail address: ksheaffer@eco-gripfloor.com
 Training necessary: Yes, training in practices and procedures contained in product literature.
 Reissue date / reason for reissue: 02/04/2016 / Updated GHS Standard Format
 Intended Use of Product: Structural adhesive bonding

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).

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.



MATERIALS SAFETY DATA SHEET

Eco-Grip® SpeedFlex™ Activator

Date Revised: SEP 2019
Supercodes: FEB 2016



SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SpeedFlex™
PRODUCT USE: Component "B" of a 2-Component Adhesive for Thermoset Composites, Plastics and other substrates
SUPPLIER: **MANUFACTURER:** Allied Industries International, Inc.
1088 Old Gaffney Highway
Jonesville, SC 29353
Tel. 864-674-0018

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 4	Acute Toxicity:	None	Flammable Liquid:	Category 4
Skin Irritation:	None	Chronic Toxicity:	None		
Skin Sensitization:	Category 1				
Eye:	Category 2A				

GHS LABEL: **Signal Word:** Warning **WHMIS CLASSIFICATION:** Not Regulated

Hazard Statements	Precautionary Statements
H317: May cause an allergic skin reaction.	P261: Avoid breathing vapors. P233: Keep container tightly closed. P271: Use in a well-ventilated area.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS #	EINECS #	REACH Pre-registration Number	CONCENTRATION
				% by Weight
Benzoyl Peroxide (BPO)*	94-36-0	202-327-6	05-2116297715-31-0000	<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. If irritation develops, seek medical advice.
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.
Likely Routes of Exposure: Inhalation, Eye and Skin Contact
Acute symptoms and effects:
Inhalation: May cause irritation of nose, throat and lungs
Eye Contact: May cause eye irritation
Skin Contact: Prolonged exposure may cause moderate skin irritation
Ingestion: May cause nausea, vomiting and diarrhea
Chronic (long-term) effects: None known to humans

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media:	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog	HMS	NFPA	0-Minimal	
Unsuitable Extinguishing Media:	Water spray or stream	Health	2	2	1-Slight
Exposure Hazards:	Inhalation and skin contact	Flammability	1	1	2-Moderate
Combustion Products:	Oxides of carbon, oxides of nitrogen	Reactivity	1	1	3-Serious
Protection for Firefighters:	Self-contained breathing apparatus or full-face positive pressure air-supply masks	Special Hazard:	Oxidizer		4-Severe

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame.
Provide sufficient ventilation, 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: Clean up with sand or other inert absorbent material. Transfer to a suitable closable container

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing.
Keep away from ignition sources, and ensure adequate ventilation/fume exhaust hoods.
Do not eat, drink or smoke while handling.
Storage: Store in ventilated room or shade and away from direct sunlight and temperatures above 29°C (85°F). 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	OSHA Ceiling	CAL/OSHA PEL	CAL/OSHA STEL	CAL/OSHA Ceiling
	Benzoyl Peroxide	5 mg/m ³	N/E	5 mg/m ³	N/E	N/E	5 mg/m ³	N/E	N/E

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. Nitrile or neoprene gloves should be used for frequent immersion.
Use of latex/nitrile surgical 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.



MATERIALS SAFETY DATA SHEET

Eco-Grip® SpeedFlex™ Activator

Date Revised: SEP 2019
Supercodes: FEB 2016



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Color matched, viscous liquid	Odor Threshold:	0.75 ppm: MMA
Odor:	Strong Solvent Odor	Evaporation Rate:	> 1.0 (BUAC = 1)
pH:	Not Applicable	Flammability:	Category 2
Boiling Point:	100.5°C (212.9°F) Based on first boiling component: MMA	Flammability Limits:	LEL: 1.6% based on MMA UEL: 12.5% based on MMA
Flash Point:	11.5°C (52.7°F) T.C.C. based on MMA	Vapor Pressure:	28 mm Hg @ 20°C (68°F): MMA
Specific Gravity:	0.970 @23°C (73°F)	Vapor Density:	> 3.0 (Air = 1)
Solubility:	Moderate (MMA, MAA)	VOC Content :	≤50 g/l mixed
Auto-Ignition Temperature:	421°C (789.8°F): MMA		
Decomposition Temperature:	Not Applicable		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable, unless heated
Hazardous decomposition products:	None in normal use. Oxides of carbon, oxides of nitrogen, hydrogen chloride, hydrocarbons, acrid smoke and gases.
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

Toxicity:	LD50	LC50
Methyl Methacrylate Monomer (MMA)	Oral: 7900 mg/kg (rat), Dermal: >35000 mg/kg (rabbit)	Inhalation: 4 hrs. 7093 PPM (rat)
Methacrylic Acid	Oral: 1320 mg/kg (rat), Dermal: 500 mg/kg (rabbit)	Inhalation: 7.1 mg/l/4h (rat)

Reproductive Effects Not Established	Teratogenicity Not Established	Mutagenicity Not Established	Embryotoxicity Not Established	Sensitization to Product Not Established	Synergistic Products Not Established
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SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: MMA	Species	Test Results
Toxicity to fish	LC50-Pimephales promelas (fathead minnow)	125.5 - 275.0 mg/l - 96 h
Toxicity to daphnia	EC50 WaterFlea (Daphnia magna)	720 mg/l
Toxicity to algae	EC50 - P. subcapitata (green algae)	170 mg/l - 96 h
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 DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" .
Hazard Class:	3	
Secondary Risk:	None	
Identification Number:	UN 1133	
Packing Group:	PG II	
Label Required:	Class 3 Flammable Liquid	TDG INFORMATION TDG CLASS: FLAMMABLE LIQUID 3 SHIPPING NAME: ADHESIVES UN NUMBER/PACKING GROUP: UN 1133, PG II
Marine Pollutant:	NO	

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information:	Highly Flammable, Harmful	Ingredient Listings:	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECLTCCL, Japan MITI (ENCS)
Symbols:	F, Xn		
Risk Phrases:	R-11 Highly Flammable R-20 Harmful by inhalation R-21 Harmful if contact with skin R-22 Harmful if swallowed		R-36/37/38 Irritating to eyes, respiratory system and skin R-43 May cause sensitization by skin contact
Safety Phrases:	S-2 Keep out of reach of children S-7 Keep container tightly closed when not in use S-9 Keep container in a well-ventilated place S-15/16 Keep away from heat and sources of ignition. No smoking S-23 Do not breathe vapor		S-24/25 Avoid contact with skin and eyes. S-29 Do not empty into drains S-37 Wear suitable gloves S-51 Use only in well ventilated areas

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 Directive on RoHS (Restriction of Hazardous Substances).
E-mail address:	kSheaffer@eco-gripfloor.com	
Training necessary:	Yes, training in practices and procedures contained in product literature.	
Reissue date / reason for reissue:	02/04/2016 / 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.



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