
I. PRODUCT AND COMPANY IDENTIFICATION

Company: Simpson Strong-Tie Company, Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588

Product Name: VGC Resin - VCG37, VGC50, VGC62, VGC75, VCG100

Product Description: Vinylester Glass Capsule Adhesive - Resin

Emergency Contact No.: 1-800-535-5053 USA
1-352-323-3500 **International**

Date Prepared or Revised: February 2007

II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Styrene (Monomer)	100-42-5

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION**EMERGENCY OVERVIEW**

Non-corrosive.
Flammable.
May be irritating to the eyes and skin.
May cause skin sensitization.

POTENTIAL HEALTH EFFECTS**ACUTE**

Eye Contact: May cause eye irritation, swelling, tearing, redness or cornea damage.
Skin Contact: Moderate irritation. May cause skin sensitization, evidenced by rashes and hives. Styrene contained in this product may be absorbed through skin causing systemic toxicity.
Inhalation: Moderate irritation to the nose and respiratory tract. May cause Central Nervous System depression, evidenced by headache, dizziness, and nausea.
Ingestion: May cause irritation to the gastrointestinal tract. May cause Central Nervous System depression or other systemic effects.
Systemic Effects: Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persist, **CONSULT A PHYSICIAN.**

Skin Contact: Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persist, **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING.** Never administer anything by mouth to an unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN** if vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN.**

V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, carbon dioxide or dry chemical, aqueous foam.
Fire And Explosion Hazard: Hazardous gases/vapors produced carbon monoxide. Do not allow run-off from fire fighting to enter drains or water courses.
Fire Fighting Equipment and Procedures: Wear full protective clothing and self-contained breathing apparatus for fire fighting. Isolate fuel supply from fire. Clear fire area of all non-emergency personnel. Use water spray to cool fire-exposed surfaces and containers.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use self-contained breathing apparatus and chemical protective clothing. Evacuate personnel to safe areas.
Environmental Precautions: Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.
Clean-up Methods: **Small spills:** Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
Large spills: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
Additional Information: Notify authority if any exposures to the general public or environment occurs or is likely to occur. Dispose of in accordance with federal, state, and local regulations.

VII. STORAGE AND HANDLING

Storage: Keep in cool, dry, well-ventilated area. Protect against heat and light. Protect from frost. Store material between 40°F - 95°F.
Handling: To prevent skin and eyes contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Measure: Wear appropriate personal protective equipment.
Eye Protection: Avoid contact with eyes. Wear chemical-resistant safety glasses.
Hand Protection: Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
Skin and Body Protection: Wear chemical-resistant gloves and other clothing as required to minimize contact.
Respirator Protection: Not required for properly ventilated areas.
Exposure Limits:

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Styrene (Monomer)	50 ppm	N/E

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Clear
Odor: Styrene
Vapor Pressure: N/E
Boiling Point: 293°F (145°C)
Melting Point: ~131°F (55°C)
Flash Point: 95°F (35°C) Closed Cup
Specific Gravity: N/E
Solubility In Water: Insoluble

X. REACTIVITY DATA

Stability: Unstable with heat.
Conditions To Avoid: Incompatible chemicals, heat and open flame.
Materials To Avoid: Oxidizing agents like sulphone acid and chlorsulphone acid.
Hazardous Decomposition Products: Decomposes with heat. Combustion may produce carbon monoxide.
Hazardous Polymerization: Polymerization can occur when exposed to excessive heat.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat): 5000 mg/kg
Acute Dermal (LD₅₀, Rabbit): Irritant
Acute Inhalation (LC₅₀, Rat): 1min: 11 mg/kg (Styrene)
Chronic Health Hazard The most common chronic effects of styrene reported are to the central nervous system. Repeated exposure to low levels can cause memory problems, slowed reflexes and trouble with balance.

XII. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products: This material is a hazardous waste by RCRA criteria (40 CFR 261). Dispose of container and unused contents in accordance with federal, state, and local requirements.

XIII. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification:

Acute/Chronic Health Hazard.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:

Styrene (Monomer).

US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product contains small trace of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm.

Component	Regulation	% In Blend (approx.)	Remarks
Styrene	ACGIH	43	Carcinogenic

XIV. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
2	3	0

N/E – Not Established

This Material Safety Data Sheet (MSDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

I. PRODUCT AND COMPANY IDENTIFICATION

Company: Simpson Strong-Tie Company, Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588

Product Name: **Initiator - VCG37, VGC50, VGC62, VGC75, VCG100**

Product Description: Vinylester Glass Capsule Adhesive - Initiator

Emergency Contact No.: 1-800-535-5053 **USA**
1-352-323-3500 **International**

Date Prepared or Revised: February 2007

II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Dibenzoyl peroxide	94-36-0
Dicyclohexyl phthalate	84-16-7

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION**EMERGENCY OVERVIEW**

Non corrosive.
Moderate irritation to eyes and skin.
May cause skin sensitization.

POTENTIAL HEALTH EFFECTS**ACUTE**

Eye Contact: May cause eye irritation, swelling, tearing, redness or cornea damage.
Skin Contact: Moderate irritation. May cause skin sensitization, evidenced by rashes and hives.
Inhalation: Moderate irritation to the nose and respiratory tract.
Ingestion: May cause irritation to the gastrointestinal tract.
Systemic Effects: Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persist, **CONSULT A PHYSICIAN**.

Skin Contact: Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persist, **CONSULT A PHYSICIAN**.

Ingestion: **DO NOT INDUCE VOMITING.** Never administer anything by mouth to an unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN** if vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN**.

V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, carbon dioxide or dry chemical, aqueous foam.

Fire And Explosion Hazard: Hazardous gases/vapors produced carbon monoxide. Do not allow run-off from fire fighting to enter drains or water courses.

Fire Fighting Equipment and Procedures: Wear full protective clothing and self-contained breathing apparatus for fire fighting. Isolate fuel supply from fire. Clear fire area of all non-emergency personnel. Use water spray to cool fire-exposed surfaces and containers.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use self contained breathing apparatus and chemical protective clothing. Evacuate personnel to safe areas.

Environmental Precautions: Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

Clean-up Methods: **Small spills:** Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
Large spills: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.

Additional Information: Notify authority if any exposures to the general public or environment occurs or is likely to occur. Dispose of in accordance with federal, state, and local regulations.

VII. STORAGE AND HANDLING

Storage: Keep in cool, dry, well-ventilated area. Protect against heat and light. Protect from frost. Store material between 40°F - 95°F.

Handling: To prevent skin and eyes contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-ventilated work area.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Measure: Wear appropriate personal protective equipment.

Eye Protection: Avoid contact with eyes. Wear chemical-resistant safety glasses.

Hand Protection: Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

Skin and Body Protection: Wear chemical-resistant gloves and other clothing as required to minimize contact.

Respirator Protection: Not required for properly ventilated areas.

Exposure Limits:

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Dibenzoyl peroxide	5 mg/m ³	5 mg/m ³
Dicyclohexyl phthalate	5 mg/m ³	5 mg/m ³

IX. PHYSICAL PROPERTIES

Form: Powder

Color: White

Odor: No significant odor

Boiling Point: N/E

Freezing Point: N/E

Vapor Pressure: N/E

Flash Point: N/E

Specific Gravity: N/E

Solubility In Water: N/E

X. REACTIVITY DATA

Stability: Unstable with heat above 140°F (60°C).

Conditions To Avoid: Incompatible chemicals and temperature above 140°F (60°C).

Materials To Avoid: Strong oxidizing agents, acids, and bases.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, and hydrocarbons.

Hazardous Polymerization: Will not occur under normal temperature and pressure.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat):	>5000 mg/kg (Dibenzoyl peroxide) 2000 mg/kg (Dicyclohexyl phthalate)
Acute Dermal (LD₅₀, Rabbit):	Irritant
Acute Inhalation (LC₅₀, Rat):	4hr: >24.3 mg/l (Dibenzoyl peroxide)
Chronic Health Hazard	While not likely to occur under normal use, prolonged and/or repeated inhalation may cause respiratory tract irritation.

XII. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products:	This material is a hazardous waste by RCRA criteria (40 CFR 261). Dispose of container and unused contents in accordance with federal, state, and local requirements.
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XIII. TRANSPORTATION

US DOT(CFR):	UN3269, Polyester Resin Kit, 3, PG III.
IATA:	UN3269, Polyester Resin Kit, 3, PG III, Pkg Inst 312.
IMO:	UN3269, Polyester Resin Kit, 3, PG III (35°C), Limited Quantity.

XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification:

Acute.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:

Dibenzoyl peroxide.

California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product contains small trace of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm. None.

XV. OTHER INFORMATION**HMIS RATING**

Health	Flammability	Physical Hazard
2	1	0

N/E – Not Established

This Material Safety Data Sheet (MSDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.