
I. PRODUCT AND COMPANY IDENTIFICATION

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

Product Name: **AT Resin - ATPAC05, ATPAC05KT, AT08, AT13, AT30, AT050R**

Product Description: Acrylic-Tie 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
Methyl Methacrylate	80-62-6
Silica, amorphous (fumed)	67762-90-7
Crystalline Silica	14808-60-7

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.
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 are methyl methacrylate, carbon monoxide, carbon dioxide, and smoke. Toxic and flammable vapors may be produced under combustion. Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition sources and flash back. Do not allow run-off from fire fighting to enter drains or water courses.

V. FIRE-FIGHTING MEASURES (CONT.)

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 away from: acids, oxidizers, heat, or flames. Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.

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 minimizing contact.

Respirator Protection: Not required for properly ventilated areas.

Exposure Limits:

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Methyl Methacrylate	50 ppm	100 ppm
Silica, amorphous (fumed)	2 mg/m ³ *	20 mg/m ³ **
Crystalline Silica	0.05mg/m ³ ***	0.2mg/m ³ ***

*ACGIH (TLV) for amorphous silica, fume, respirable fraction
 **OSHA PEL for amorphous silica, total fraction is 80 mg/m³
 %SiO₂
 ***OSHA PEL for crystalline silica, quartz, respirable is 10 mg/m³
 %SiO₂₊₂

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Color: White

Odor: Strong acrid odor

Vapor Pressure: N/E

Boiling Point: N/E

Freezing Point: N/E

Flash Point: 73°F (23°C) Closed Cup

Specific Gravity: N/E

pH: 6.7

Solubility In Water: N/E

X. REACTIVITY DATA

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

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat): Non toxic
Acute Dermal (LD₅₀, Rabbit): N/E
Acute Inhalation (LC₅₀, Rat): N/E

Chronic Health Hazard Prolonged and/or repeated exposure to methyl methacrylate may lead to kidney, lung, liver, and heart damage. Respirable crystalline silica (quartz) can cause silicosis (scarring) of the lungs. Exposure to silica dust is not likely from normal use of product.

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. TRANSPORTATION

US DOT (CFR): UN1866, Resin Solution, 3, PG III.
IATA: UN1866, Resin Solution, 3, PG III, Pkg Inst. 309.
IMO: UN1866, Resin Solution, 3, PG III, (23°C).

XIV. 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:

Methyl Methacrylate.

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
Silica Quartz	ACGIH	43	Carcinogenic

XV. 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** - ATPAC05, ATPAC05KT, AT08, AT13, AT30, AT005I

Product Description: Acrylic-Tie 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
Diisobutyl phthalate	84-69-5
Silica, amorphous (fumed)	67762-90-7
Crystalline Silica	14808-60-7

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. 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 spray, fog or foam, carbon dioxide, dry chemical.

Fire And Explosion Hazard: Irritating and toxic fumes may be produced at high temperature. In a fire, may produce carbon monoxide, carbon dioxide, byphenyl, and smoke. Do not allow run-off from fire fighting to enter drains or water courses.

V. FIRE-FIGHTING MEASURES (CONT.)

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 away from: acids, oxidizers, heat, or flames. Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.

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 minimizing contact.

Respirator Protection: Not required for properly ventilated areas.

Exposure Limits:

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Dibenzoyl peroxide	3 mg/m ³	100 ppm
Diisobutyl phthalate	N/E	N/E
Silica, amorphous (fumed)	2 mg/m ³ *	32 mg/m ³ **
Crystalline Silica	0.05mg/m ³ ***	0.2mg/m ³ ***

*ACGIH TLV for amorphous silica, fume, respirable fraction.

**OSHA PEL for amorphous silica, total fraction is 80 mg/m³ %SiO₂

***OSHA PEL for crystalline silica, quartz, respirable is 10 mg/m³ %SiO₂₊₂

IX. PHYSICAL PROPERTIES

Form: Paste

Color: Black

Odor: No significant odor

Boiling Point: N/E

Freezing Point: N/E

Vapor Pressure: N/E

Flash Point: 203°F (95°C) Close cup

Specific Gravity: N/E

pH: 5.8

Solubility In Water: N/E

X. REACTIVITY DATA

Stability: According to the manufacturer, this material is stable at temperature up to 113°F (45°C).
Conditions To Avoid: Incompatible chemicals and temperature above 113°F (45°C).
Materials To Avoid: Strong oxidizing agents, acids, and bases. Metal salt, reducing agents, and accelerators.
Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, byphenyl, and smoke. Other organic substances and flammable vapors may be produced.
Hazardous Polymerization: Will not occur under normal temperature and pressure.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat): N/E
Acute Dermal (LD₅₀, Rabbit): N/E
Acute Inhalation (LC₅₀, Rat): N/E
Chronic Health Hazard Systemic toxicity in humans has not been reported. Respirable crystalline silica (quartz) can cause silicosis (scarring) of the lungs. Exposure to silica dust is not likely from normal use of product. Components of this product are listed as carcinogens concentrations of 0.1% or greater. Repeated or prolonged exposure may cause allergic reaction and/or limited sensitization.

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. TRANSPORTATION

US DOT(CFR): UN3107, Organic Peroxide Type E, Liquid (Dibenzoyl Peroxide), 22%, 5.2.
IATA: UN3107, Organic Peroxide Type E, Liquid (Dibenzoyl Peroxide), 22%, 5.2, Pkg Inst. 500.
IMO: UN3107, Organic Peroxide Type E, Liquid (Dibenzoyl Peroxide), 22%, 5.2.

XIV. 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:

Dibenzoyl peroxide.

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
Carbon Black	ACGIH	0.07	Carcinogenic
Silica Quartz	ACGIH	41	Carcinogenic

XV. OTHER INFORMATION

HMS 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.