

AT-XP® High-Strength Acrylic Adhesive

SAFETY DATA SHEET



1. Identification

Product Identification

Product Identifier: AT-XP®
Recommended Use: AT-XP® is a fast-cure, all-weather, high-strength anchoring adhesive code-listed for threaded rod and rebar in cracked and uncracked concrete and masonry.
Use Restrictions: To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
Phone: 1-800-999-5099
Website: www.strongtie.com
Emergency: **1-800-535-5053 (US/Canada)**
1-352-323-3500 (International)

For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

AT-XP® High-Strength Acrylic Adhesive is a high-strength anchoring adhesive for anchoring threaded rod and rebar in cracked and uncracked concrete and masonry. It is a low odor formula that can be used easily in both cold and warm weather conditions, including below-freezing temperatures. AT-XP® is a two component (10:1) system packaged as a single unit in a dual cartridge. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). Exposure to individual components will only occur with improper use. Product mixing occurs via mixing nozzle while being dispensed. The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. The final cured product will be uniformly dark teal in color and can be considered nonhazardous. Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

Resin (Black-Green Side) GHS Classification

Classification according to HazCom2012 (GHS)

| | | | |
|-------------------------------|-------------------------------|------------|---|
| Physical Hazards: | Not Classified. | | |
| Health Hazards: | Skin Corrosion/Irritation | Category 2 | H315: Causes skin irritation |
| | Serious Eye Damage/Irritation | Category 2 | H319: Causes serious eye irritation |
| | Sensitization, Skin | Category 1 | H317: May cause an allergic skin reaction |
| | STOT, Single Exposure | Category 3 | H335: May cause respiratory irritation |
| Environmental Hazards: | Not Classified. | | |

Main Symptoms: Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin. May cause shortness of breath, discomfort in chest, or coughing.

GHS Label Elements



Exclamation Point

Contains: Portland Cement, Methacrylates
Signal Word: **WARNING!**
Hazard Statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
Precautionary Statements:
Prevention:
P102: Keep out of reach of children.
P103: Read label before use.

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|------------------|-----------------|--|
| | P202: | Do not handle until all safety precautions have been read and understood. |
| | P261: | Avoid breathing mist or vapor. |
| | P264: | Wash thoroughly after handling. |
| | P271: | Use only outdoors or in a well-ventilated area. |
| | P272: | Contaminated clothing should not be allowed out of the workplace. |
| | P280: | Wear protective gloves/protective clothing/eye protection/face protection. |
| Response: | P301+P330+P331: | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| | P302+P352: | IF ON SKIN: Wash with plenty of water. |
| | P333+P313: | If skin irritation or rash occurs: Get medical advice/attention. |
| | P363: | Wash contaminated clothing before reuse. |
| | P304+P340: | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | P305+P351+P338: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P337+P313: | If eye irritation persists: Get medical advice/attention. |
| Storage: | P403: | Store in a well-ventilated place. |
| | P405: | Store locked up. |
| Disposal: | P501: | Dispose of contents/container in accordance with local/regional regulations. |

Supplemental Label Information: None known.

Initiator (White Side) GHS Classification

Classification according to HazCom2012 (GHS)

| | | | |
|-------------------------------|-------------------------------|------------|--|
| Physical Hazards: | Flammable Liquid | Category 4 | H227: Combustible liquid |
| Health Hazards: | Serious Eye Damage/Irritation | Category 2 | H319: Causes serious eye irritation |
| | Sensitization, Skin | Category 1 | H317: May cause an allergic skin reaction |
| Environmental Hazards: | Acute Aquatic Hazard | Category 1 | H400: Very toxic to aquatic life |
| | Chronic Aquatic Hazard | Category 1 | H410: Very toxic to aquatic life with long lasting effects |

Main Symptoms: Irritation of eyes. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin.

GHS Label Elements



Contains: Dibenzoyl Peroxide, White Mineral Oil

Signal Word: **WARNING**

| | | |
|---------------------------|-------|---|
| Hazard Statements: | H227: | Combustible liquid. |
| | H319: | Causes serious eye irritation. |
| | H317: | May cause an allergic skin reaction. |
| | H400: | Very toxic to aquatic life. |
| | H410: | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements:

| | | |
|--------------------|-------|---|
| Prevention: | P102: | Keep out of reach of children. |
| | P103: | Read label before use. |
| | P202: | Do not handle until all safety precautions have been read and understood. |
| | P210: | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. |
| | P261: | Avoid breathing mist or vapor. |
| | P264: | Wash thoroughly after handling. |
| | P272: | Contaminated clothing should not be allowed out of the workplace. |
| | P273: | Avoid release to the environment. |
| | P280: | Wear protective gloves/protective clothing/eye protection/face protection. |

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| | | |
|------------------|-----------------|--|
| Response: | P302+P352: | IF ON SKIN: Wash with plenty of water. |
| | P333+P313: | If skin irritation or rash occurs: Get medical advice/attention. |
| | P362+P364: | Take off contaminated clothing and wash before reuse. |
| | P305+P351+P338: | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P337+P313: | If eye irritation persists: Get medical advice/attention. |
| | P370+P378: | In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder, or water fog for extinction. |
| Storage: | P391: | Collect spillage. |
| | P403: | Store in a well-ventilated place. |
| | P405: | Store locked up. |
| Disposal: | P501: | Dispose of contents/container in accordance with local/regional regulations. |

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured AT-XP®. The fully cured product is an innocuous solid, which does not present any immediate hazards. Upon grinding or cutting through the cured product, the following hazards may apply. Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product.



Chronic Health

| | | |
|---------------------------------|---|-------------|
| Health Hazards: | Carcinogenicity | Category 1A |
| | STOT, Repeated Exposure | Category 1 |
| OSHA Hazards: | Combustible Dust | |
| Hazard Statement: | May cause cancer. Causes damage to organs through prolonged and repeated exposure. Can form explosive air-dust mixtures; avoid creating dust. | |
| Precautionary Statement: | Do not breathe dust. Do not allow dust to build up on surfaces. | |

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Globally Harmonized System Classifications

The full text for H- phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Resin (Black-Green Side)

| Chemical Name | Weight % | CAS Number | EC Number |
|---|----------|------------|-----------|
| Portland Cement | 20-30 | 65997-15-1 | 266-043-4 |
| Classifications: Skin Corr. 1: H314, Eye Corr. 1: H318, Skin Sens. 1: H317, Carc. 1: H350, STOT SE 3: H335 | | | |
| Crystalline Silica, Quartz | 10-20 | 14808-60-7 | 238-878-4 |
| Classifications: Carc. 1A: H350, STOT RE 1: H372 | | | |
| Bisphenol-A Ethoxylate Dimethacrylate | 10-20 | 41637-38-1 | 219-529-5 |
| Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, STOT SE 3: H335 | | | |
| Propylidynetrimethyl Trimethacrylate | 10-20 | 3290-92-4 | 221-950-4 |
| Classifications: Aquatic Chronic 2 : H411 | | | |
| Tetrahydrofurfuryl Methacrylate | 1-10 | 2455-24-5 | 219-529-5 |
| Classifications: Flam. Liq. 4: H227, Skin Irrit 2: H315, Eye Irrit 2: H319, Aquatic Chronic 3: H412 | | | |

Initiator (White Side)

| Chemical Name | Weight % | CAS Number | EC Number |
|--|----------|------------|-----------|
| Dibenzoyl Peroxide | 10-20 | 94-36-0 | 202-327-6 |
| Classifications: OP B: H241, Eye Irrit. 2: H319, Skin Sens 1: H317, Aquatic Acute 1: H400 | | | |
| White Mineral Oil (Petroleum) | 10-20 | 8042-47-5 | 232-455-8 |
| Classifications: Asp. Tox. 1: H304 | | | |

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| Chemical Name | Weight % | CAS Number | EC Number |
|---|----------|------------|-----------|
| Titanium Dioxide Classifications: Carc. 2: H351 | 1-10 | 13463-67-7 | 236-675-5 |
| Zinc Stearate Classifications: STOT SE 3: H335, Aquatic Acute 1: H400 | 1-5 | 557-05-1 | 209-151-9 |
| Crystalline Silica, Quartz Classifications: Carc. 1A: H350, STOT RE 1: H372 | < 2 | 14808-60-7 | 238-878-4 |

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, **consult a physician immediately.**

Skin Contact: Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation persists **consult a physician.**

Ingestion: Rinse mouth immediately. Do not induce vomiting unless told to do so by a poison control center or doctor. If vomiting occurs keep head low so that stomach contents don't get into the lungs. Never give anything by mouth to an unconscious person. **Consult a physician immediately.**

Inhalation: If breathing is difficult remove patient to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

Most Important Symptoms

Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. Rash/dermatitis. May cause shortness of breath, discomfort in chest, or coughing.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder, or water fog.

Additional Information: Do not use water jet as an extinguisher as this will spread the fire.

Hazards during Fire-Fighting: Irritating and toxic gases/fumes may be released during a fire. May re-ignite after fire is extinguished. Sealed containers may rupture when heated due to pressure increase.

Fire-Fighting Procedures: Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured): Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. **DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN.** Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied.

Large spills (uncured): Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof

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containers. Seal tightly for proper disposal. Following product recovery, flush area with water.

Cured Material:

Chip or grind off surface. The product contains components that are considered carcinogenic in respirable form. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Keep away from open flame, hot surfaces, and sources of ignition. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Do not breathe dust. When using do not eat, drink, or smoke. Use only in well-ventilated places. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Full Unused Cartridges: Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 14-80°F (-10-27°C). Keep away from heat and sources of ignition. Protect container from physical damage.

Partially Used Cartridges: To store partially used cartridge temporarily replace cap or leave hardened nozzle in place. To re-use, attach new nozzle. Do not try to dispense after adhesive hardens in nozzle. CAUTION: Adhesive will start to gel in the nozzle if allowed to stand after 3-4 minutes at 70°F. Adhesive will gel faster at higher temperatures. Material under pressure can blowout the back of the cartridge if the adhesive in the nozzle hardens. Use only an appropriate Simpson Strong-Tie® mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair adhesive performance.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Eye Protection: Chemical splash goggles or safety glasses with side shield are recommended.

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

Skin and Body Protection: Wear long sleeve shirt/long pants and other clothing as required to minimize skin contact.

Respirator Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, or if discomfort is experienced, an approved respirator should be worn. Proper installation of AT-XP® requires drilling into concrete or masonry. Concrete and masonry dust can be hazardous to human health and precautions should be taken to avoid inhalation.

General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended, ventilation rates should be matched to conditions to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

| Component | OSHA (PEL) | ACGIH (TLV) | NIOSH Pocket Guide |
|-----------------------------------|---|--|---|
| Portland Cement (CAS 65997-15-1) | 5 mg/m ³ (respirable) 15 mg/m ³ (total dust) | 1 mg/m ³ (TWA, respirable) | 5 mg/m ³ (respirable) 10 mg/m ³ (total dust) |
| Quartz (CAS 14808-60-7) | $\frac{10}{\%SiO_2 + 2} \text{ mg/m}^3$ | 0.025 mg/m ³ (respirable) | 0.05 mg/m ³ (respirable) |
| Dibenzoyl Peroxide (CAS 94-36-0) | 5 mg/m ³ | 5 mg/m ³ | 5 mg/m ³ |
| Titanium Dioxide (CAS 13463-67-7) | 15 mg/m ³ (TWA) | 10 mg/m ³ (TWA) | N/E |
| White Mineral Oil (CAS 8042-47-5) | 5 mg/m ³ | 5 mg/m ³ (inhalable fraction) | 5 mg/m ³ (TWA, mist) 10 mg/m ³ (STEL, mist) |
| Zinc Stearate (CAS 557-05-1) | 5 mg/m ³ (respirable) 15 mg/m ³ (total) | 10 mg/m ³ | 5 mg/m ³ (respirable) 10 mg/m ³ (total) |

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9. Physical and Chemical Properties

| Property | Resin | Initiator |
|-------------------------------|-------------------------------|-----------------------------|
| Physical State: | Liquid, Paste | Liquid, Paste |
| Color: | Black-Green | White |
| Odor: | No Significant Odor | No Significant Odor |
| pH: | No data | No data |
| Flammability limit – lower %: | No data | No data |
| Flammability limit – upper %: | No data | No data |
| Vapor Pressure: | No data | No data |
| Vapor Density: | No data | No data |
| Solubility: | Slight | Miscible |
| Freezing/Melting Point: | No data | No data |
| Boiling Point: | No data | No data |
| Flash Point: | >200 °F (>93.3 °C) Closed Cup | 159 °F (70.6 °C) Closed Cup |
| Evaporation Rate: | No data | No data |
| Decomposition Temperature: | No data | 122°F (50°C) (SADT) |
| Specific Gravity: | No data | 1.58 |
| VOC (after cure): | 30 g/L | 30 g/L |
| Kow: | No data | No data |
| Viscosity: | No data | No data |
| Corrosiveness: | Non-corrosive | Non-corrosive |

10. Stability and Reactivity

Resin (Black-Green Side)

| | |
|-------------------------|--|
| Reactivity: | Oxidizing, avoid contact with reducing agents. |
| Chemical Stability: | Stable under normal storage conditions. |
| Condition to Avoid: | Heat, sparks, flame, elevated temperatures. |
| Substances to Avoid: | Oxidizing and reducing agents. |
| Hazardous Reactions: | The product is stable if stored and handled as prescribed/indicated. Hazardous polymerization can occur with excessive heat. |
| Decomposition Products: | Fire or high temperature can create: carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds. |

Initiator (White Side)

| | |
|-------------------------|--|
| Reactivity: | Stable and non-reactive under normal conditions of use, storage, and transport. |
| Chemical Stability: | Stable and non-reactive under normal conditions of use and storage. |
| Condition to Avoid: | Avoid conditions over 113°F (45°C). |
| Substances to Avoid: | Rust, iron, copper. Hazardous decomposition will occur when in contact with acids, alkalis, heavy metal, reducing agents, and peroxide accelerators. |
| Hazardous Reactions: | The product is stable if stored and handled as prescribed/indicated. |
| Decomposition Products: | Benzoic acid. Benzene. Biphenyl. Phenyl Benzoate. Fire or high temperature can create: carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds. |

11. Toxicological Information

Likely Routes of Exposure

| | |
|---------------|--|
| Ingestion: | Expected to be a low ingestion hazard. |
| Inhalation: | This material is a viscous liquid to semi-solid that does not easily form vapors. May cause respiratory irritation. Do not inhale dust from grinding/cutting cured product. |
| Skin contact: | Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact: | Causes serious eye irritation. |
| Symptoms: | Burning, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. May cause shortness of breath, discomfort in chest, or coughing. May cause shortness of breath, discomfort in chest, or coughing. |

Information on Toxicological Effects

| | |
|----------------------|--|
| Acute Effects | |
| Toxicity: | Occupational exposure to the substance or mixture may cause adverse effects. |

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| Component | Species | Test Result |
|-------------------------|-----------------------------|--------------------|
| AT-XP Resin Mixture | Acute, Oral , LD50 | Rat >5000 mg/kg |
| | Acute, Dermal , LD50 | Rabbit >1000 mg/kg |
| AT-XP Initiator Mixture | Acute, Oral , LD50 | Rat >5000 mg/kg |
| | Acute, Dermal , LD50 | Rabbit >1000 mg/kg |

| Component | Species | Test Result |
|--|---------------------------------|------------------------|
| Propylidynetrimethyl Trimethacrylate (CAS 3290-92-4) | Acute, Oral , LD50 | Rat 6000 mg/kg |
| | Acute, Dermal , LD50 | Rat > 2000 mg/kg |
| Quartz (CAS 14808-60-7) | Acute, Oral , LD50 | Rat 22500 mg/kg |
| Dibenzoyl Peroxide (CAS 94-36-0) | Acute, Oral , LD50 | Rat 7710 mg/kg |
| | Acute, Inhalation , LC50 | Rat 24.3 mg/l, 4 hours |
| Zinc Stearate (CAS 557-05-1) | Acute, Oral , LD50 | Rat 10000 mg/kg |
| White Mineral Oil (CAS 8042-47-5) | Acute, Oral , LD50 | Rat > 5000 mg/kg |
| | Acute, Dermal , LD50 | Rabbit > 2000 mg/kg |
| | Acute, Inhalation , LC50 | Rat > 5 mg/l, 4 hours |
| Titanium Dioxide (CAS 13463-67-7) | Acute, Oral , LD50 | Rat > 10000 mg/kg |
| | Acute, Inhalation , LC50 | Rat > 6.82 mg/l |

Skin corrosion/irritation: Causes skin irritation.
Eye damage/eye irritation: Causes serious eye irritation.
Respiratory sensitization: No data available.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: Due to the physical form of this product it is not an aspiration hazard.
Specific target organ toxicity - Single exposure: May cause respiratory irritation.

Chronic Effects
Germ cell mutagenicity: No data available.
Carcinogenicity: May cause cancer. This product contains components which are considered carcinogens only in their respirable form. Due to the nature of this product, exposure to respirable particles is likely only when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control exposure.
Reproductive toxicity: No data available.
Specific target organ toxicity - Repeated exposure: May cause damage to organs (lungs) through prolonged or repeated exposure.

| Carcinogen / Reproductive Toxin / Mutagen Information | | | | | |
|---|----------------------|-----------------|-------|-------|-------|
| Component | % In Blend (approx.) | IARC Monographs | NTP | ACGIH | Other |
| Portland Cement (CAS 65997-15-1) | 20-30 | --- | --- | A4 | --- |
| Quartz (CAS 14808-60-7) | < 20 | 1 | KNOWN | A2 | CA65 |
| Dibenzoyl Peroxide (CAS 94-36-0) | 10-20 | 3 | --- | --- | --- |
| Titanium Dioxide (CAS 13463-67-7) | 1-10 | 2B | --- | --- | CA65 |

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
CA65 – California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on the components and the ecotoxicity of similar products. AT-XP Resin is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. AT-XP Initiator is classified as very toxic to aquatic life, with long lasting effects. Avoid release to the environment.

Supporting Data

| Component | Species | Test Result |
|--|----------------------------------|--|
| Propylidynetrimethyl Trimethacrylate (CAS 3290-92-4) | Aquatic , Fish, LC50 | Rainbow trout 2 mg/l, 96 hours |
| | Aquatic , Crustacea, EC50 | Daphnia magna > 9.22 mg/l, 48 hours |
| | Aquatic , Algae, EC50 | Green algae 0.177 mg/l, 72 hours |
| Tetrahydrofurfuryl Methacrylate (2455-24-5) | Aquatic , Fish, LC50 | Fathead minnow 34.7 mg/l, 96 hours |
| | Dibenzoyl Peroxide (CAS 94-36-0) | Aquatic , Fish, LC50 |
| Aquatic , Crustacea, EC50 | | Daphnia magna 0.11 mg/l, 48 hours |
| Aquatic , Algae, EC50 | | Green Algae 0.0711 mg/l, 72 hours |
| White Mineral Oil (CAS 8042-47-5) | Aquatic , Fish, LC50 | Fish > 10000 mg/l, 96 hours |
| | Aquatic , Crustacea, EC50 | Daphnia magna > 100 mg/l, 48 hours |

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for entire product.

| Chemical | Log Kow | BCF | Bioaccumulation Potential |
|---|---------|------------|---------------------------|
| Dibenzoyl Peroxide (CAS 94-36-0) | 3.46 | 250 (est.) | --- |
| White Mineral Oil (CAS 8042-47-5) | > 6 | --- | high |
| BPA Ethoxylated Dimethacrylate (CAS 41637-38-1) | > 6.2 | --- | --- |

Mobility in soil: No data available.

Further Information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Consideration

Waste Disposal of Substance: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

Container Disposal: Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

Check limited quantity regulations prior to shipping. AT-XP cartridges may qualify for LQ shipping exemptions.

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| | | |
|--------------------------|---------------------------------|---|
| | Resin (Black-Green Side) | Initiator (White Side) |
| UN number: | --- | UN3082 |
| UN proper shipping name: | Not regulated for shipping | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Standard Dibenzoyl Peroxide), 9, III, Marine Pollutant |
| Transportation Class: | --- | 9 |
| Precautions: | --- | Marine Pollutant |
| Packing Group: | --- | III |
| Environment Hazard: | --- | Yes |
| Required Labels: | --- | 9 |
| ERG Code (IATA): | --- | 9L |
| EmS (IMDG): | --- | F-A, S-F |

Additional Information

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This substance/mixture is not intended to be transported in bulk.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

15. Regulatory Information

United States

Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

| Hazard Categories: | | | | | |
|--------------------|-----------|---------|------|----------|------------|
| | Immediate | Delayed | Fire | Pressure | Reactivity |
| Resin | Yes | Yes | No | No | No |
| Initiator | Yes | Yes | Yes | No | No |

SARA 302 Extremely hazardous substance: No
SARA 311/312 Hazardous chemical: Yes
SARA 313 (TRI reporting):

| Chemical | CAS Number | % In Blend (approx.) |
|--------------------|------------|----------------------|
| Aluminum Oxide | 1344-28-1 | < 1 |
| Dibenzoyl Peroxide | 94-36-0 | 10-20 |

US. California Proposition 65: WARNING: This product contains a chemical listed by the State of California as known to cause cancer, birth defects, or reproductive harm.

| Carcinogen / Reproductive Toxin / Mutagen Information | | | | | |
|---|----------------------|-----------------|-------|-------|---------------------|
| Component | % In Blend (approx.) | IARC Monographs | NTP | ACGIH | Other |
| Carbon Black (CAS 1333-86-4) | < 0.1 | 2B | --- | --- | CA65 (Carcinogenic) |
| Quartz (CAS 14808-60-7) | < 20 | 1 | KNOWN | A2 | CA65 (Carcinogenic) |
| Titanium Dioxide (CAS 13463-67-7) | < 10 | 2B | --- | --- | CA65 (Carcinogenic) |

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic
NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected
CA65 - California Prop 65

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US State Right-To-Know Lists

| Chemical | Massachusetts RTK | New Jersey Work and Community RTK Act | Pennsylvania Worker and Community RTK Law | Rhode Island RTK | Maine CHC |
|-----------------------------------|-------------------|---------------------------------------|---|------------------|-----------|
| Portland Cement (CAS 65997-15-1) | Listed | Listed | Listed | | |
| Quartz (CAS 14808-60-7) | Listed | Listed | Listed | | Listed |
| Dibenzoyl Peroxide (CAS 94-36-0) | Listed | Listed | Listed | Listed | |
| Zinc Stearate (CAS 557-05-1) | Listed | Listed | Listed | Listed | |
| Titanium Dioxide (CAS 13463-67-7) | Listed | Listed | Listed | | |

Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

| REACH Registered Substances | | | |
|-----------------------------|------------|-----------|--------------|
| Chemical | CAS Number | EC Number | Index Number |
| Dibenzoyl Peroxide | 94-36-0 | 202-327-6 | 617-008-00-0 |

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

| | |
|--|---|
| Australia | All component of this product are listed on the Australian Inventory of Chemical Substances (AICS). |
| Canada | All components of this product are included on the Domestic Substances List (DSL). |
| China | All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC). |
| Europe | All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing. |
| Japan | All components of this product are listed on the Inventory of Existing and New Chemical Substances (ENCS). |
| Korea | All components of this product are included on the Existing Chemicals List (ECL) |
| New Zealand | All components of this product are included on the New Zealand Inventory. |
| Philippines | One or more components in this product are not listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS). |
| United States & Puerto Rico | All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed. |

16. Other Information

Date Prepared or Revised: September 2016
Supersedes: February 2016

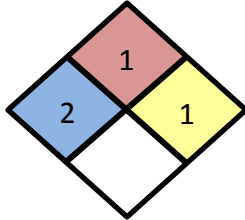
Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com

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Additional Resin (Black-Green Side) Classifications

NFPA Ratings

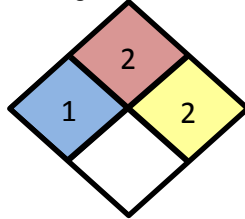


HMIS Rating

| | | | |
|--------------|---|----------|---|
| HEALTH | 2 | PHYSICAL | 1 |
| FLAMMABILITY | 1 | PPE | B |

Additional Initiator (White Side) Classifications

NFPA Ratings



HMIS Rating

| | | | |
|--------------|---|----------|---|
| HEALTH | 1 | PHYSICAL | 2 |
| FLAMMABILITY | 2 | PPE | B |

Abbreviations

| | |
|-----------------|---|
| ACGIH: | American Conference of Governmental Industrial Hygienists |
| CAS No.: | Chemical Abstract Service Registry Number |
| CERCLA: | Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA) |
| HPR: | Hazardous Product Regulations (Canada) |
| DOT: | Department of Transportation (U.S.) |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals |
| HMIS: | Hazardous Materials Identification System |
| IARC: | International Agency for Research on Cancer |
| IATA: | International Air Transport Association |
| IMDG: | International Maritime Dangerous Goods code |
| NIOSH: | National Institute of Occupational Safety and Health (U.S.) |
| NFPA: | National Fire Protection Association (US) |
| NTP: | National Toxicology Program (US) |
| OSHA: | Occupational Safety and Health Administration (U.S.) |
| PEL: | Permissible Exposure Limit |
| SARA: | Superfund Amendments and Reauthorization Act (U.S. EPA) |
| STEL: | Short Term Exposure Limit (15 minute Time Weighted Average) |
| STOT: | Specific Target Organ Toxicity (GHS Classification) |
| TLV: | Threshold Limit Value |
| TSCA: | Toxic Substances Control Act (U.S.) |
| TWA: | Time Weighted Average (exposure for 8-hour workday) |
| VOC: | Volatile Organic Compounds |
| WHMIS: | Canadian Workplace Hazardous Materials Information System |

Full Text of H – Phrases Under Section 3

| | |
|--------------|---|
| H227: | Combustible liquid. |
| H241: | Heating may cause a fire or explosion. |
| H304: | May be fatal if swallowed and enters airways. |
| H314: | Causes severe skin burns and eye damage. |
| H315: | Causes skin irritation. |
| H317: | May cause an allergic skin reaction. |
| H318: | Causes serious eye damage. |
| H319: | Causes serious eye irritation. |
| H335: | May cause respiratory irritation. |

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- H350: May cause cancer.
- H351: Suspected of causing cancer.
- H372: Causes damage to organs through prolonged and repeated exposure.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Disclaimer

This Safety Data Sheet (SDS) 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 SDS. This SDS 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.

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Internal

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| | |
|------------------------|------------------------|
| AT-XP Resin: | AT-XP Initiator: |
| XCOM3B – 90% Cartridge | XCOM3A – 10% Cartridge |