

## SPI Supplies Division

Structure Probe, Inc.

P.O. Box 656 West Chester, PA 19381-0656 USA

Phone: 1-(610)-436-5400 Fax: 1-(610)-436-5755

[spi3spi@2spi.com](mailto:spi3spi@2spi.com)

<http://www.2spi.com>

Manufacturer's CAGE: 1P573

## Safety Data Sheet

Date Effective: April 23, 2013

SPI# 05111-AB, 05111-BA  
Crystalbond™ 555 Mounting Adhesive

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### Section 1: Identification

Chemical Name/Synonyms..... **Crystalbond™ 555 Mounting Adhesive**

Chemical family..... Adhesive

Manufacturer: Aremco Products, Inc., 707-B Executive Blvd., Valley Cottage, NY 10989 USA

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name..... **Crystalbond™ 555**  
(sold in 90 gram sticks)

CAS #'s..... 9016-45-9

Chemical Formula..... Mixture

#### OSHA Classification

Harmful by ingestion, irritant

#### GHS Classification

Acute toxicity, Oral (Category 4)

Skin irritation (Category 3)

Eye irritation (Category 2A)

Transitory target organ effects (Category 3)  
(respiratory tract irritation)

#### Hazard Symbol



Signal Word: Warning

Hazard Statement(s)

H302: Harmful if swallowed  
H316: Causes mild skin irritation  
H320: Causes eye irritation  
H335: May cause respiratory irritation

**Precautionary Statement(s)**

P102: Keep out of reach of children  
P233: Keep container tightly closed  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P262: Do not get in eyes, on skin, or on clothing  
P302: IF ON SKIN: Immediately wipe excess material off skin with a dry cloth, then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists.  
P305: IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Hazardous Material Information System USA

Health..... 1  
Fire Hazard..... 1  
Reactivity..... 0  
Personal Protection..... H

NFPA Rating (estimated)

Health..... 1  
Flammability..... 1  
Reactivity..... 0

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**Section 2: Composition**

Component Name	CAS #	Percent	EINECS/ELINCS
Nonylphenol 40 mole ethoxylate	9016-45-9	99.999	500-024-6
Ethylene oxide (residual)	75-21-8	0.001	200-849-9

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**Section 3: Hazard Identification**

**Appearance:** Off-white solid

**Flash Point:** >200°F

**Potential Health Effects**

**Primary Routes of Exposure:** Eye, Skin, and Inhalation

**Eye:** May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.

**Skin:** Brief contact may cause slight irritation. Acute (short term) adverse effects are not expected from brief skin contact.

**Inhalation:** Dust may cause irritation of the nose and throat. Overexposure to high concentrations of dust may cause respiratory irritation, experienced as coughing and difficulty breathing.

**Ingestion:** Moderately toxic. May cause abdominal discomfort, nausea, vomiting, and diarrhea.

**Chronic Hazards:** No adverse effects have been documented in humans as a result of chronic exposure. Not listed on NTP, IARC or OSHA as carcinogen.

**Physical Hazards:** Hot wax can cause burns to eyes and skin. Spilled material is slippery. Dries to form a waxy film.

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## Section 4: First Aid Measures

**Eyes:** Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes. Hot fluid product: Cool burns with plenty of low-pressure water and get immediate medical attention.

**Skin:** Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use. Hot Fluid: Immediately cool skin with water and cold packs for at least 15 minutes. Do not put ice directly on skin. Do not attempt to remove solidified wax from the skin as severe tissue damage may result. Get immediate medical attention.

**Inhalation:** Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardiopulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

**Ingestion:** If swallowed, do not induce vomiting. If victim is conscious and alert, give 1 – 2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

**Medical Conditions Possibly Aggravated by Exposure:** Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Sin contact may aggravate existing skin disease.

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## Section 5: Fire Fighting Measures

**General Information:** **Firefighters** should use NIOSH/MSHA approved positive pressure breathing apparatus with full face piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of the control water later.

**Unusual Fire and Explosion Hazards:** None

**Extinguishing Media:** Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

**Flash Point:** 250°F (482°C (Closed cup)

**Explosion Limits:**

**Upper:** n/a

**Lower:** n/a

**Autoignition Temperature:** n/a

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## Section 6: Accidental Release Measures

**Personal Protection:** Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.

**Spill Cleanup:** Avoid breathing dust. Use vacuuming or sweeping compound for cleanup. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete cleanup.

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## Section 7: Handling and Storage

**Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing dust and vapors generated when melted. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.

**Storage:** Store in cool, dry, well ventilated area. Water contamination should be avoided. Store in clean plastic or steel containers.

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## Section 8: Exposure Controls and Personal Protection

Chemical Name	CAS#	ACGIH TLV	OSHA-Final PELs
Ethylene Oxide	75-21-8	n/a	1 ppm
Ethoxylated Nonyl Phenol	9016-45-9	10 mg/m <sup>3</sup>	Not established

**Engineering Controls:** Use with adequate ventilation. Keep containers closed. Safety Shower and eyewash fountain should be within direct access.

**Personal Protective Equipment:** Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.

**Eyes:** Wear chemical goggles.

**Skin:** Wear body-covering protective clothing and gloves.

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## Section 9: Physical and Chemical Properties

**Physical State:** solid

**Appearance:** off-white

**Odor:** Mild

**pH:** 6.5

**Vapor Pressure:** n/a

**Vapor Density:** >1.0 (air=1)

**Evaporation Rate:** nil

**Viscosity:** n/a

**Boiling Point:** >480°F

**Freezing/Melting Point:** 110°F

**Autoignition Temperature:** n/a

**Flash Point:** >210°F (Closed Cup)

**Decomposition Temperature:** n/a

**Explosion Limits:**

**Lower:** n/a

**Upper:** n/a

**Solubility in water:** 100%

**Specific Gravity/Density:** n/a

**Molecular Formula:** n/a

**Molecular Weight:** n/a

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## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under all conditions of use and storage.

**Conditions to Avoid:** None

**Hazardous Decomposition of Products:** Carbon monoxide, carbon dioxide, irritating aldehydes and ketones may be formed on burning. Heating in air may product irritating aldehydes, acids, and ketones.

**Hazardous Polymerization:** Will not occur

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## Section 11: Toxicological Information

### Animal Toxicity Data:

Oral: LD50 Believed to be > .50-2.00 g/kg (rat) moderately toxicological  
Inhalation: Not determined  
Dermal: LD50 Believed to be > 2.00 g/kg (rabbit) practically non-toxic

### Estimation of Irritation (Species):

Skin: (Draize) Believed to be > .50-3.00/8.0 (rabbit) slightly irritating  
Eyes: (Draize) Believed to be > 15.00-25.00/110 (rabbit) slightly irritating  
Sensitization: Not determined

### Other:

This product may contain residual (less than 100 ppm) concentrations of ethylene oxide. Ethylene oxide causes tumors in laboratory animals.

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## Section 12: Ecological Information

**Aquatic Toxicity:** Not determined

**Mobility:** Not determined

**Persistence & Biodegradability:** Not determined

**Potential to Bio-accumulate:** Not determined.

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## Section 13: Disposal Considerations

Dispose of in accordance with all federal, state and local regulations.

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## Section 14: Transport Information

### US DOT Hazard Class:

Not hazardous from standpoint of transportation.

### IATA (for international shipments)

Not hazardous from standpoint of transportation.

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## Section 15: Regulatory Information

### United States:

**TSCA:** All components of this product are listed on the TSCA Inventory.

<b>CERCLA:</b>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>	<u>RQ</u>
	Residual Ethylene Oxide	75-21-8	0.001%	10

<b>SARA Title III:</b>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>	<u>TPQ</u>	<u>RQ</u>
	Residual Ethylene Oxide	75-21-8	0.001T	1000	10

<b>Hazard Classes</b>	<b>Yes/No</b>
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Fire Hazard	No
Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No

### Canada

CAS# 75-21-8 is listed on the DSL List.

CAS# 75-21-8 is not listed on the NDSL List.

CAS# 9016-45-9 is listed on the DSL List.

CAS# 9016-45-9 is not listed on the NDSL List.

### WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the CPR.

### European:

Safety Phrases:

S25 Avoid contact with eyes.

NOTE: n/a = not available

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## Section 16: Other Information

### Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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