



# MATERIAL SAFETY DATA SHEET

## INSTAbond® S-500 Ethyl Cyanoacrylate Adhesive

### SPECIFICATIONS:

Complies with Mil-A-46050C/A-A-3097 Type 2, Class 3

### National Stock Numbers:

8040-01-140-0954 - 1oz. bottle

### SECTION 1: PRODUCT and COMPANY IDENTIFICATION

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Product Name: INSTAbond® S-500

Company: ACCRAbond, Inc.  
8848 Hacks Cross Road  
Olive Branch, MS 38654-1827

Emergency Phone  
Numbers: ACCRAbond: 800-895-4480  
ChemTrec: 800-424-9300

### SECTION 2: INFORMATION ON COMPONENTS

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Chemical Name	CAS Number	Weight%	ACGIH TLV	ACGIH STEL	OSHA-PEL TWA
Ethyl Cyanoacrylate	7085-85-0	70-100	0.2 ppm TWA	None	None

### SECTION 3: HAZARDS IDENTIFICATION

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**INGESTION:** Not expected to be harmful by means of ingestion. Rapidly polymerizes and bonds in mouth.

**SKIN:** Bonds skin instantly! May cause skin irritation. Cyanoacrylates generate heat on polymerization. Large amounts on skin could cause burning. Cured adhesive doesn't present health hazard when bonded to skin.

**INHALATION:** Exposure to high concentration of vapor above established exposure limit could result in respiratory irritation, breathing difficulty, and/or tightness in chest.



EYES: Will cause irritation and excessive tearing. Eyelids may bond instantly.

HMIS RATING: Health – 2 Flammability – 2 Reactivity – 1

#### **SECTION 4: FIRST AID MEASURES**

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INGESTION: Product will polymerize rapidly and bond to the mouth making it difficult to swallow. Saliva will separate bonded product in several hours. Make sure breathing passages are unobstructed. Consult medical attention.

SKIN: Do not pull on bonded skin. Soak in warm, soapy water for several minutes and pick apart with a clean instrument such as tweezers. Peel or roll lips apart, but do not pull directly apart with opposing force.

INHALATION: In case of exposure to high concentration of vapors, remove person to fresh air. If respiratory irritation persists, seek medical attention.

EYES: Immediately flush with plenty of water (under eye lids) at least 15 minutes. If eyelids are bonded closed, release eyelashes with warm water by using a wet pad and soaking the affected area. Do not force eyes open. Keep eye covered until debonding is complete which usually takes 2 – 3 days. Seek medical attention and make sure polymerized product doesn't get trapped behind eyelids which can cause abrasive damage to the cornea.

#### **SECTION 5: FIRE FIGHTING MEASURES**

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FLASHPOINT: 80°C - 94°C (TCC Method)

AUTOIGNITION TEMPERATURE: 480°C

LOWER EXPLOSIVE LIMITS: Not determined

HIGHER EXPLOSIVE LIMITS: Not determined

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.

SPECIAL FIRE FIGHTING MEASURES: Firefighters should wear full protective clothing and self contained breathing apparatus. Thoroughly decontaminate fire fighting equipment and fire fighting apparel after the incident.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Ventilate area well. Flood spills with water to completely polymerize material. Cured material can be scraped from the floor and disposed of as non-hazardous waste.

#### **SECTION 7: HANDLING & STORAGE**

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**HANDLING:** Avoid all contact with eyes, skin, and clothing. Avoid breathing fumes or vapors. Wash thoroughly after handling. Avoid contact with cloth composed of cotton or paper because these materials will cause rapid polymerization resulting in strong, irritating vapors. Smoke will also be emitted as a result of rapid polymerization. Thermal burns are likely under these conditions.

**STORAGE:** Keep in a cool, well-ventilated area away from excessive heat, sources of sparks/ignition, and open flames. Keep containers tightly closed when not in use. Material may be kept in freezer below 0°C for maximum stability. Product should come to room temperature before using.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** If general ventilation is not sufficient to keep vapor concentration below established exposure levels, use local, positive down-draft exhaust.

**RESPIRATORY PROTECTION:** A respirator protection program that meets OSHA 1910.134 must be followed whenever workplace conditions warrant the use of a respirator.

**SKIN PROTECTION:** Use nitrile gloves and aprons to avoid contact. Do not use PVC, cotton fiber, or nylon materials.

**EYE PROTECTION:** Chemical splash safety eyewear with side shields is always recommended.

## **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

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**APPEARANCE:** Colorless, liquid

**ODOR:** Sharp, irritating

**ODOR THRESHHOLD:** < 5 ppm

**SPECIFIC GRAVITY:** 1.10 @ 25°C

**pH:** Not applicable

**SOLUBILITY IN WATER:** Polymerizes in presence of water

**BOILING POINT:** > 150°C

**EVAPORATION RATE:** Not determined

**VAPOR PRESSURE:** < 0.3 mm Hg @ 25°C

**VAPOR DENSITY:** Not determined

**VOLATILE ORGANIC CONTENT:** 25 gms/

## **SECTION 10: STABILITY & REACTIVITY**

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**STABILITY:** This product is stable under normal conditions.

**HAZARDOUS POLYMERIZATION:** Will occur in the presence of water, amines, alkaline materials, and alcohols.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.



INCOMPATIBILITY: Water, amines, alkaline materials, and alcohols.

CONDITIONS TO AVOID: Environments promoting uncontrolled polymerization such as presence of incompatible materials.

## SECTION 11: TOXICOLOGY INFORMATION

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ACUTE ORAL LD50: >4500 mg/kg (rat)  
ACUTE DERMAL LD50: >2000 mg/kg (rabbit)  
NTP CARCINOGEN: Negative  
IARC CARCINOGEN: Negative  
OSHA CARCINOGEN: Negative

## SECTION 12: ECOLOGICAL INFORMATION

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Not known

## SECTION 13: DISPOSAL INFORMATION

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Dispose in accordance with federal, state and local regulations. This product is not classified as RCRA hazardous waste.

## SECTION 14: TRANSPORTATION INFORMATION

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### Department of Ground Transportation (49 CFR):

Proper Shipping Name: Combustible liquids, n.o.s. (Cyanoacrylate ester)  
Hazard Class / Division: 3  
Identification Number: Not available  
Packing Group: None  
Marine Pollutant: None

### International Air Transportation (ICAO/IATA):

Proper Shipping Name: Aviation regulated liquids, n.o.s. (Cyanoacrylate ester)  
Hazard Class / Division: 9  
Identification Number: UN 3334  
Packing Group: None

### IMO/IMDG Transportation:

Proper Shipping Name: Unrestricted



8848 Hacks Cross Rd  
Olive Branch, MS 38654  
Fax (662) 895-4439  
[www.accrabond.com](http://www.accrabond.com)  
Phone (662) 895-4480

Hazard Class / Division: None  
Identification Number: None  
Packing Group: None  
Marine Pollutant: None

#### **SECTION 15: REGULATORY INFORMATION**

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TSCA INVENTORY STATUS: All components are listed.  
SARA SECTION 302: None  
SARA SECTION 311/312: Immediate/Delayed Health Hazard, Fire, Reactive  
SARA SECTION 313: None

#### **SECTION 16: OTHER**

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To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for the accuracy or completeness of the information contained herein. Final determination of suitability of any materials is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.