

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

### Product identifier:

Identification as on the label/Trade name: Flex-A-Bond

Unique Product Code: 1

### Relevant identification uses of the substance and uses advised against:

**Identified uses:** Cyanoacrylate adhesive for use on track area application.

**Uses advised against:** No other uses are advised.

### Details of the supplier of the Safety Data Sheet:

#### **US address:**

Professional Hair Labs  
3795 Correia Drive  
Zephyrhills, Florida 33542  
+1-800-778-4247

#### **EU address:**

Professional Hair Labs  
Scientific Cosmetix Office and Business Park  
Whitemill Industrial Estate  
Wexford Town, Wexford  
Ireland Y35 X27W  
+353-53-91-78582

### Emergency telephone numbers:

Emergency Contact:

Professional Hair Labs USA: +1-800-778-4247 (USA)

Professional Hair Labs Ireland: +353-53-91-78582 (Ireland)

## Section 2: Hazards Identification

### Classification of the substances or mixture:

The mixture is classified according to: Regulation EC 1272/2008 [EU-GHS/CLP]

### **Hazard classes/Hazard categories:**

Skin Irritant (Category 2)

Eye Irritant (Category 2)

STOT SE (Category 3)

### Label elements:

#### **Hazard pictogram:**



**Signal word:** Warning.

**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary statements:**

P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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.

P319 Get medical help if you feel unwell.

P332 + P317 If skin irritation occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local regulations.

**Other hazards:** Refer to Section 3.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture:** Mixture.

**Ingredients:**

Substance name (IUPAC/EC)	CAS-No.	Concentration % by weight	SCLs, M-Factors, Acute Toxicity Estimates (ATE)	Classification EC1272/2008
	EC-No.			
ethyl 2-cyanoacrylate	7085-85-0	>90%	STOT SE 3; H335: C ≥ 10 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
	230-391-5			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4: First-Aid Measures

**Description of first aid measures:**

**Inhalation:** Move to fresh air, consult doctor if complaint persists.

**Skin contact:** Soak the bonded surface in warm soapy water or in a warm 1% solution of sodium bicarbonate. Peel or roll the surfaces apart gently with the aid of a blunt edge e.g., a teaspoon handle or spatula. Do not try to pull surface apart with a direct opposing action. Remove residual adhesive from the skin with plenty of soap and water.

**Contact with the mouth:** If lips are accidentally stuck together apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart gently. Do not try to pull the lips apart with direct opposing action.

**Ingestion:** Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. In the unlikely event of adhesive entering the mouth it will solidify on contact with the moisture in the mouth bonding directly on the surfaces in the mouth. Salvia will gradually debond the adhesive over a period of hours. Do not try to pull the polymerized adhesive from the mouth. Keep checking the mouth to ensure that the person doesn't swallow it when it detaches.

**Eye contact:** In the event of the eyelids being bonded, wash thoroughly and gently with warm water and apply a gauze patch over the eye. Do not force the eye open. Seek medical attention. Cyanoacrylate will bond to the eye protein and will cause periods of weeping which will help to debond the adhesive. The eye will open without any further action in 1-3 days even if gross contamination has occurred. Double vision may be experienced during this period. There should be no residual damage to the eye.

**Most important symptoms and effects, both acute and delayed:**

**Burns:** Cyanoacrylates give off heat on solidification. Gross contamination with the adhesive may generate enough heat to cause a burn. Burns should be treated normally after the polymer has been removed gently from the skin. If the person experiences a burning sensation flood the contaminated skin immediately with plenty of cold water to cool the burn. Continue to remove the adhesive by gently peeling or rolling it from the skin whilst soaking the contaminated area in cold water. It will take longer to remove the adhesive with cold water but it will still be effective.

**Accidental bonding of clothing with cyanoacrylate adhesive on the human skin:** If the cyanoacrylate adhesive has been splashed on the clothing and has soaked through to the skin the clothing should never be forcibly removed from the skin. If the clothing has bonded directly on the skin and the person isn't experiencing a burning sensation the affected area should be soaked with warm soapy water and the clothing removed gently by peeling or rolling back. Cold water should be used in cases where there is any burning sensation. Forcible removal of bonded clothing from the skin could lead to mechanical damage occurring to the skin and this could result in a more severe injury.

**Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

## Section 5: Fire-Fighting Measures

**Extinguisher media:**

**Suitable extinguishing media:** Foam, extinguishing powder, carbon dioxide, fine water spray.

**Special protection equipment for fire fighters:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing.

**Hazardous combustion products:** Oxides of carbon, oxides of nitrogen, irritating organic vapors.

## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation. Wear personal protective equipment. Avoid breathing vapors and avoid skin and eye contact.

**Environmental precautions:** Do not let product enter drains.

**Methods for containment and cleaning up:**

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## Section 7: Handling and Storage

### Precautions for safe handling:

Ventilation (low level) is recommended when using large volumes. Use of dispensing equipment is recommended to minimize the risk of skin or eye contact.

### Conditions for safe storage, including incompatibilities:

Store in a cool dry place. Keep containers tightly closed. Protect from moisture.

**Specific end uses:** Use only as directed.

## Section 8: Exposure Controls and Personal Protection

### Control parameters:

#### **Occupational exposure limits:**

Ireland: OEL /TWA) 0.2 ppm

Germany: no MAK value established

UK: STEL 0.3 ppm / 1.5 mg/m<sup>3</sup>

### Exposure controls:

**Appropriate engineering controls:** No data available.

### Individual protection measures, such as personal protective equipment:

**Respiratory protection:** Ensure adequate ventilation.

**Hand protection:** In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended.

**Eye protection:** Wear protective glasses.

**General protection and hygiene measures:** Good industrial hygiene practices should be observed.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties:

**Appearance (form):** Liquid.

**Color:** Colorless.

**Odor:** Solvent.

**Odor threshold:** No data available.

**pH (concentration):** No data available.

**Melting point/range (°C):** -31 °C

**Boiling point/range (°C):** 214 °C

**Flash point (°C):** 82.5 °C

**Evaporation rate:** No data available.

**Flammability (solid, gas):** No data available.

**Upper/lower flammability/explosive limits:** No data available.

**Vapor pressure:** 21 Pa @ 20 °C

**Vapor density:** No data available.

**Relative density (25 °C):** 1.043

**Water solubility (g/L) at 20 °C:** Insoluble.

**n-Octanol/Water partition coefficient:** No data available.

**Auto-ignition temperature:** 480 °C  
**Viscosity, dynamic (mPa.s):** 2.6 mPa.s

### Section 10: Stability and Reactivity

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.  
**Stability:** Stable under recommended conditions of storage.  
**Possibility of hazardous reactions:** Hazardous polymerization is not expected to occur.  
**Conditions to avoid:** None known.  
**Materials to avoid:** Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.  
**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11: Toxicological Information

**Information on toxicological effects:**  
**Acute toxicity:** No data available.  
**Skin corrosion/irritation:** Causes skin irritation.  
**Serious eye damage/irritation:** Causes serious eye irritation.  
**Respiratory or skin sensitization:** No data available.  
**Germ cell mutagenicity:** No data available.  
**Carcinogenicity:** Not data available.  
**Reproductive toxicity:** No data available.  
**STOT-single exposure:** May cause respiratory irritation.  
**STOT-repeated exposure:** No data available.  
**Aspiration hazard:** No data available.

### Section 12: Ecological Information

**Toxicity:** No data available.  
**Persistence and degradability:** No data available.  
**Bioaccumulative potential:** No data available.  
**Mobility in soil:** No data available.  
**Results of PBT& vPvB assessment:** No data available.  
**Other adverse effects:** No data available.

### Section 13: Disposal Considerations

**Product disposal:** Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.  
**Disposal of uncleaned packages:** After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorized legal land fill site or incinerated.

## Section 14: Transport Information

**UN number:** 3334

**UN proper shipping name:** AVIATION REGULATED LIQUID, N.O.S.

**Transport hazard class:** Class 9

**Packing group:** -

## Section 15: Regulatory Information

### EU regulations:

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**  
Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

### Authorisations:

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

### Restrictions on use:

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**  
Not regulated.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
Not listed.

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**  
Not regulated.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.**  
Not regulated.

**Other EU regulations:**

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.**

Always applicable.

**Directive 94/33/EC on the protection of young people at work**

Not listed.

**Other regulations:** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations:** Follow national regulation for work with chemical agents.

**Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

## Section 16: Other Information

**Indication of changes:** GHS aligned.

**Relevant classification and H statements (number and full text):**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Training instructions:** Use as instructed.

**Further information:** This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Notice to readers:** Employers should use this information only as a supplement to other information gathered by them and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.