

**FORTA A25****1. PRODUCT AND COMPANY INFORMATION**

**Trade name:** Forta A25  
**Product type:** Instant adhesive  
**Application:** Adhesion  
**Company:** FORDEPRO SA de CV  
**Address:** Blvd. Aristoteles 803 C, Col. La Joya  
C.P. 37358 – León – Gto. - México  
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**ATTENTION: READ THIS SAFETY DATA SHEET BEFORE HANDLING THE PRODUCT**

**2. HAZARDS IDENTIFICATION****2.1 Clasification of the substance or mixture:**

Skin corrosión/ irritation- Category 2

**H315** – Causes skin irritation

Serious eye damage/ eye irritation Category-2

**H319** – Causes serious eye irritation

Specific target organ toxicity– Category 3

**H335** – May cause respiratory irritation**2.2 Label elements:**

<b>Pictogram:</b>	
<b>Signal word:</b>	<b>Warning</b>
<b>Hazard statements:</b>	<b>H315:</b> Causes skin irritation <b>H319:</b> Causes serious eye irritation <b>H335:</b> May cause respiratory irritation
<b>Prevention precautionary statements:</b>	<b>P261:</b> Avoid breathing dust/ fume/ gas/ mist/

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	vapours/ spray <b>P280:</b> Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection
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**Reactivity:** Highly reactive with water and humidity.

**Risks:** May cause skin burns. May cause skin irritation and the vapors may irritate and cause serious eye damage in seconds.

**Specific risks:** Instant skin and eyelid adhesion, causing eye and mucous membranes irritation.

**Signs of exposure:** Chronic or repeated exposure to vapours may produce non allergic asthma symptoms in sensitive individuals, as well as eye damage.

**Warning:** Irritant by every way of exposure.

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### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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**Chemical Nature:** Cyanoacrylate adhesive

Nombre Químico o Genérico	Concentration (%)	CAS nº	EINECS(EC)
Ethyl $\alpha$ - cyanoacrylate	90 - 91	7085-85-0	230-391-5
Polymethyl methacrylate	5 - 9	9011-14-7	-----
Hydroquinone	0.1 - 1	123-31-9	204-617-8

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### 4. FIRST AID MEASURES

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**Inhalation exposure:**

If inhaled, remove to fresh air immediately. If the person feels unwell, call a physician.

**Skin exposure:**

Do not pull bonded skin apart. Wash with soap/ cleanser and rinse with plenty of water. Any bonded skin should be gently peeled apart with the aid of a blunt object. Cyanoacrylates may release heat in contact

with humidity (exothermic reaction). Body moisture could be enough to cause a superficial burn. Treat accordingly.

**Eye exposure:**

In case of contacting with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Cyanoacrylate bonds to eye protein causing lacrymatory effect that aids debonding. Cover the eye with wet pad soaked in warm water. Keep the eye

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covered with wet pad until debonding is complete, usually 1-3 days. Get medical attention, in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage

**Ingestion:**

Ensure that breathing passages are not obstructed. The product will polymeize immediately in the mouth, making it almost imposible to swallow. Saliva will separate the solified producto from the mouth over a period of hours.

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**5. FIRE- FIGHTING MEASURES**

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Flash point: >185 °F (COC).  
Flammability: Non- flammable  
Extinguishing media: Dry chemical, water spray, carbon dioxide or apropiate foam.

**Special protective action for fire- fighters:**

Fire- fighters should wear self- contained breathing apparatus as a protection for toxic vapor. Cool the container down with water spray until the fire is put out.

**Explosion Hazard and/or Unusual fire**

Vapor from the product may get on fire if exposed to flames.

**Special procedures for fire- fighting**

Use a self- contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Emergency procedures:**

Combustible liquid. Remove all sources of ignition. Keep people away from upwind and leakage or spillage. Entry to non- involved personal should be controlled around the leakage area by roping off. Ensure adequate ventilation.

**Methods for containment and cleaning up:**

Ventilate the area. Polimeryze adhesive by adding slowly to water. Mix with inert material and transfer to a dry, clean lidded container for disposal.

**Small spills:**

Do not clean with absorbent paper or fabric (natural fibers may get on fire). For spills or leakage, add water from a safe distance, wait for 30 minutes and scrape the place with a metal spatula or so. After, clean with absorbant paper or fabric.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling:**

Avoid skin and eye contact. Avoid inhalation of vapour. Ensure adequate ventilation – Local Exhaust Ventilation may be required. Wear eye protection and gloves. Avoid eye and skin contact. Store apart from sunlight and heat and/or ignition sources.

**Condiciones para un almacenamiento seguro:**

Store in tightly closed labeled containers approved by manufacturer. Store in a cool, dry, well-ventilated area. Store apart from sunlight and heat and/or ignition sources. Temperature should be under 73.4 °F to maximize life product.

**8. EXPOSURE CONTROL/ PERSONAL PROTECTION**

Exposure limits (TWA)	ACGIH	OSHA	Other components (TLV) (TLV)
Etil $\alpha$ cyanoacrylate	None	None	2 ppm TWA 9,1 mg / MN
Hydroquinone	2 mg / MN	2 mg / MN	2 mg / MN

**Personal protection equipment:**

**Respiratory:** Wear respirator masks for organic vapor. Handle in a fresh, well-ventilated area.

**Hands:** Wear neoprene, polypropylene or polyethylene gloves.

**Eyes:** Wear safety glasses

**Skin and body:** Wear safety shoes and suitable overall or aprons. Avoid cotton or natural fibers fabric, prefer synthetic fibers as polyester, nylon, etc.

**9. PHYSICAL/ CHEMICAL PROPERTIES**

<b>Appearance:</b>	Liquid
<b>Color:</b>	Colourless
<b>Odor:</b>	Weak penetrating odor
<b>pH:</b>	Not applicable
<b>Boiling point (°C):</b>	>149
<b>Flash point, (°C):</b>	>85
<b>Melting point:</b>	Not applicable
<b>Flammability:</b>	Non- flammable
<b>Lower explosion/ flammability limit:</b>	Not applicable
<b>Upper explosion/ flammability limit:</b>	Not applicable
<b>Vapor density:</b>	No data available
<b>Coefficient N-octanol/water (long value):</b>	No data available
<b>Specific gravity 77 °F:</b>	1.05

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<b>Vapor pressure (mm / Hg):</b>	<0.2
<b>VOC:</b>	94.7% (994.35 g/L)
<b>Water solubility:</b>	Insoluble. Polymerizes with contact.
<b>Reactivity:</b>	Water (humidity)
<b>Spontaneous ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity (77°F):</b>	45 - 65 cP
<b>Molecular weight:</b>	No data available

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**10. STABILITY AND REACTIVITY**

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**Incompatible substances or material:** Will polymerizes rapidly on contact with water.

**Special conditions:** Humidity. Low ambiental humidity porcentaje may cause reaction.

**Incompatible materials:** Reducing agents, water, amines, alcohols, alkali metal, strong oxidizing agents.

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**11. TOXICOLOGICAL INFORMATION**

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**Acute toxicity:** Ethyl  $\alpha$ - cyanoacrylate: rate oral LD<sub>50</sub>: >5000 mg/kg (OECD Test guide 401)  
Hydroquinone: rat oral LD<sub>50</sub>: 320 mg/kg

**Skin corrosion/ irritation:** Ethyl  $\alpha$ - cyanoacrylate: skin rabbit results: mild skin irritation 24 h (OECD Test guide 404)

This product causes skin irritation

**Serious eye damage/ irritation:** Ethyl  $\alpha$ - cyanoacrylate: irritating to eyes 72 h (OECD Test guide 405)  
This product causes serious eye irritation

**Respiratory sensitization:** no data available

**Skin sensitization:** No data available

**Germ cell Mutagenicity:** No data available

**Carcinogenicity:** Suspected of causig cancer

**Reproductive toxicity:** No data available

**Specific target organ toxicity- single exposure:** May cause respiratory irritation.

**Specific target organ toxicity- repeated exposure:** No data available

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**12. ECOLOGICAL INFORMATION**

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**Toxicity:** Hydroquinone: long- term toxicity to aquatic invertebrates- NOEC- Freshwater invertebrates: 0.006mg/L (OECD test guideline 211)

**Persistence and degradability:** Hydroquinone: biodegradation in water: screening test biodegradation in water: readily biodegradable.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal methods:**

Recycle as far as possible: If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should be not disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

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**14. TRANSPORT INFORMATION**

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**WATER- LAND**                      Unrestrained

**AIR**

**ONU Number:**                      N° ONU 3334 Unrestrained under 568ml.

**Risk class:**                              Class 9 unrestrained under 568mL

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**15. REGULATORY INFORMATION**

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**Hazard symbols and pictogram:**



Pictogram in compliance with Official Mexican Standard NOM-018-STPS-2015, Harmonized System for the identification and communication of hazards and risks from hazardous chemical substances in the workplace.

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**16. OTHER INFORMATION**

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**Abbreviations and acronyms**

**CAS:** Chemical Abstract Service Registry Numbers

**NFPA:** National Fire Protection Assn

**HMIS:** Hazard Materials Identification System

**UN:** United Nations

**IMPORTANT:** The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate but not exhaustive, and must be used as an orientation, which is based on the actual knowledge of the chemical substance or mixture.

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