

FORTA A93

1. PRODUCT AND COMPANY INFORMATION

Trade name: Forta A93
Product type: [Instant adhesive](#)
Application: Adhesion
Company: FORDEPRO SA de CV
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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 corrosion

Serious eye damage/ eye irritation Category- 2

H319 – Causes serious eye damage/ irritation

Specific target organ toxicity– Category 3

H335 – May cause respiratory tract irritation

2.2 Label elements:

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

	vapours/ spray P280: 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.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Nature: Cyanoacrylate adhesive

Nombre Químico o Genérico	Concentration (%)	CAS nº	EINECS(EC)
Etyl α- cyanoacrylate	88.3 –89.4	7085-85-0	230-391-5
Polymethyl methacrylate	10.7	9011-14-7	-----
Hydroquinone	0.1 – 1	123-31-9	204-617-8

4. FIRST AID MEASURES

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

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.

5. FIRE- FIGHTING MEASURES

Flash point: >185 °F (COC).
Flammability: Non- flammable
Extinguishing media: Dry chemical, wáter 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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Precautions for safe handling:

Date of issue: 3/2011
Date of revision: 7/2020
In compliance with: NOM-018-STPS-2015

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/ PPE

Exposure limits (TWA)	ACGIH	OSHA	Other components (TLV) (TLV)
Etil α 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, polypropilene or polyethylene gloves.

Eyes: Wear safety gloves

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

Appearance:	Liquid
Color:	Colorless
Odor:	Weak penetrating oddor
pH:	Not applicable
Boiling point (°C):	>149
Flash point, (°C):	>85
Melting point:	Not applicable
Flammability:	Non- flammable
Lower explosion/ flammability limit:	Not applicable
Upper explosion/ flammability limit:	Not applicable
Vapor density:	No data available
Coefficient N-octanol/water (long value):	No data available
Specific gravity 77 °F:	1.05
Vapor pressure (mm / Hg):	<0.2
VOC:	94.7% (994.35 g/L)

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Water solubility:	Insoluble. Polymerizes with contact.
Reactivity:	Water (humidity)
Spontaneous ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (77°F):	90-120 cP
Molecular weight:	No data available

10. STABILITY AND REACTIVITY

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

Special conditions: Humidity. Low ambiental humidity percentaje may cause reaction.

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Ethyl α - cyanoacrylate: rate oral LD₅₀: >5000 mg/kg (OECD Test guide 401)
Hydroquinone: rat oral LD₅₀: 320 mg/kg

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

This product causes skin irritation

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

12. ECOLOGICAL INFORMATION

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.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

WATER- LAND Unrestrained

AIR

ONU Number:

N° ONU 3334 Unrestrained under 568ml.

Risk class:

Class 9 unrestrained under 568mL

15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

Initialism:

CAS: Chemical Abstract Service Registry Numbers

NFPA: National Fire Protection Assn



SAFETY DATA SHEET

Date of issue: 3/2011
Date of revision: 7/2020
In compliance with: NOM-018-STPS-2015

Code: RC-VE-22
Date of revision: Jan-20-2022
Version: 03

HMIS: Hazard Materials Identification System
UN: United Nations

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