



702 SUPER GLUE (CYANOACRYLATE)

01 IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1. Product Identifier:

Product Trade Name: 702 SUPER GLUE (CYANOACRYLATE)

1.2. Relevant Identified Uses of the Mixture and Uses Advised Against:

Product Use: Cyanoacrylate adhesive

1.3. Details of the Supplier of the Safety Data Sheet:

Company : Akkim Yapı Kimyasalları San. Tic. ve A.Ş.

Address : Yeşilbayır Mah. Şimşir Sk. No: 22 34555 Hadımköy İstanbul – TÜRKİYE

Telephone/Fax Number: Tel.: +90 212 771 13 71/Fax: +90 212 771 38 88

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1.4. Emergency Telephone Number: +90 212 771 13 71-on weekdays 08:00am-5:00pm

02 HAZARDS IDENTIFICATION

2.1. Classification of the Mixture

2.1.1. Classification According to Occupational Safety&Health Administration Standard-29 CFR 1910.1200

Skin Corrosion/Irritation, Category 2.

Serious Eye Damage/Irritation, Category 2A.

Specific Target Organ Toxicity, following single exposure, Category 3.

2.2. Label Elements

Labelling According to Occupational Safety&Health Administration Standard-29 CFR 1910.1200

Signal Word: Warning

Pictograms or Hazard Symbols



2.2.1. Hazard Statements

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Contains: HYDROQUINONE. May produce an allergic reaction.

2.2.2. Precautionary Statements

2.2.2.1. Prevention

Keep out of the reach of children.

Avoid breathing dust/fume/ gas/mist/vapours/spray.

Wear protective gloves/eye protection/face protection.

2.2.2.2. Response

IF ON SKIN: Wash with plenty of water and soap.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.2.3. Storage

Store in a well ventilated place. Keep container tightly closed.

2.2.2.4. Disposal

Dispose of contents/container through a waste management company authorized by the local government.

**2.3. Other Hazards****2.3.1. Physical Hazards**

Not applicable.

2.3.2. Health Hazards

Skin Irritation, Category 2; Eye Irritation Category 2; STOT SE, Category 3.

2.3.3. Environmental Hazards

Not applicable.

03 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EC Number	Conc.(% w/w)
Ethyl-2-cyanoacrylate	7085-85-0	230-391-5	80-90
Hydroquinone	123-31-9	204-617-8	0-0.5

04 FIRST AID MEASURES**4.1. Description of First Aid Measures:**

General Information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After Inhalation: Supply fresh air and to be sure call for a doctor. If the breath has stopped, have artificial respiration. If breathing difficulty occurs, have oxygen inhalation.

After Skin Contact: Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Seek medical treatment and present this data sheet.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Consult a doctor.

After Swallowing: Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth.

4.2. Important Symptoms and Effects of Both Acute and Delayed:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Eye: Irritation, conjunctivitis.

Skin: Redness, inflammation.

Respiratory: Irritation, coughing, shortness of breath, chest tightness.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed: No data available.**05 FIRE FIGHTING MEASURES****5.1. Extinguishing Media:**

-Suitable Extinguishing Media: Alcohol-resistant foam, dry powder, carbon dioxide, water spray jet.

-Unsuitable Extinguishing Media: High volume water jet.

5.2. Special Hazards Arising From the Mixture: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂).

5.3. Advice for Firefighters: Do not breathe fumes. Firefighters should wear self-contained breathing apparatus. Firefighting operations, rescue and cleaning work under effect of combustion and smolder gases just may be done with breathing apparatus. Dispose of contaminated extinction water according to official regulations.

06 ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures: Avoid contact with eyes or skin. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2. Environmental Precautions: If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.



6.3. Methods and Materials for Containment and Cleaning Up: Ventilate area of spill; flood with water to complete polymerization and scrape up the polymer. Do not use cloth for clean up. Dispose in accordance with pertinent national legislation.

6.4. Reference to Other Sections: See section: 7, 8, 11, 12 and 13.

07 HANDLING AND STORAGE

7.1. Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Avoid contact with fabric and paper goods. Contact with these may cause polymerization that can generate smoke and strong irritating vapors, and can cause thermal burns. Wash hands and face before eating

7.2. Conditions for Safe Storage, Including Any Incompatibilities: Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Incompatible products: Do not store together with alkalis.

7.3. Specific End Use(s): Cyanoacrylate

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control Parameters:

Ethyl-2-cyanoacrylate (STEL): 0.2 ppm; 1 mg/m³

Hydroquinone (TWA): 2 mg/m³

8.2. Exposure Controls:

8.2.1. Engineering Controls: If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use protective downdraft exhaust ventilation.

8.2.2. Personal Protective Equipments:

Eye Protection: Safety glasses with side shields or chemical splash goggles.

Skin Protection: Do not use PVC, rubber, cotton or nylon gloves.

Hand Protection: Tested protective gloves are to be worn: Suitable material: Synthetic rubber gloves. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Respiratory Protection: Use appropriate respiratory protective device in case of insufficient ventilation.

8.2.3. Environmental Exposure Controls: Do not flush into sanitary sewer systems/ surface water or ground water.

09 PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information:

Appearance: Liquid

Colour: Colorless

Odour: Sharp, irritating

Odour Threshold: No data available.

Ph: No data available.

Melting/Freezing Point: -22 °C

Boiling Point/Boiling Range: >200 °C

Flash Point: 80-93.4 °C (Method: Tag closed Cup)

Evaporation Rate: No data available.

Flammability: No data available.

Explosion Lower/Upper Limits: No data available.

Vapour Pressure: Less than 0.2 mmHg (@25 °C)

Vapour Density: Approximately 3 (Air=1)

Viscosity: 1200-1800 cps

Specific gravity: 1.06 ± 0.01 g/cm³ (@25 °C)

Solubility: Polymerizes in presence of water

Partition Coefficient:n-octanol/water: No data available.

Auto-Ignition Temperature: 485 °C

Decomposition Temperature: No data available.



Flow Time: No data available.

Explosive Properties: Not explosive.

Oxidising Properties: Not oxidizing.

9.2. Other Informations:

VOC: Less than 2%

10 STABILITY AND REACTIVITY

10.1. Reactivity: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, oxidizing agents and alcohols. Stable under recommended storage conditions.

10.2. Chemical Stability: The product is chemically stable under normal usage conditions.

10.3. Possibility of Hazardous Reactions: Danger of polymerization. Polymerization with evolution of heat.

10.4. Conditions to Avoid: Spontaneous polymerizations.

10.5. Incompatible Materials: Water, amines, alkalis, oxidizing agents and alcohols.

10.6. Hazardous Decomposition Products: Carbon monoxide and carbon dioxide. Nitrous oxides (NOx).

11 TOXICOLOGICAL INFORMATIONS

11.1. Information on Toxicological Effects:

Acute Toxicity:

Ethyl-2-Cyanoacrylate (CAS. No: 7085-85-0)

LD50 (Oral): >5000 mg/kg-Rat - OECD Guideline 401 (Acute Oral Toxicity)

LD50 (Dermal): >2000 mg/m³-Rabbit - OECD Guideline 401 (Acute Dermal Toxicity)

Skin Corrosion/Irritation:

Ethyl-2-Cyanoacrylate (CAS. No: 7085-85-0)

Species: Rabbit Exposure time: 24 h Results: Slightly irritating

Method: OECD Guideline 404 (Acute Dermal Irritation/Corrosion)

Serious Eye Damage/ Irritation:

Ethyl-2-Cyanoacrylate (CAS. No: 7085-85-0)

Species: Rabbit Exposure time: 72 h Results: Slightly irritating

Method: OECD Guideline 404 (Acute Eye Irritation/Corrosion)

11.2. Primary Irritant Effects:

If Inhaled: Irritating to respiratory system. Prolonged exposure to high concentrations of vapor may lead to chronic effects in sensitive individuals. In dry atmosphere with <50% humidity, vapor may irritate the eyes and respiratory system.

If Swallowed: Cyanoacrylates are considered to have relatively low toxicity. It is almost impossible to swallow as it rapidly polymerizes in the mouth.

On the Eye: Irritating to eyes. Bonds eyes in seconds. In a dry atmosphere (RH<50%) vapor may cause irritation and lachrymatory effect.

On the Skin: Irritating to the skin. Bonds skin in seconds. Due to polymerization at the skin surface allergic reaction is unlikely to occur.

12 ECOLOGICAL INFORMATIONS

12.1. Toxicity: Biological and chemical oxygen demands (BOD and COD) are insignificant.

12.2. Persistence and Degradability:

(CAS. No: 7085-85-0) Degradability: 57% aerobic

12.3. Bioaccumulative Potential:

(CAS. No: 7085-85-0) Persistence : log Kow 0.776 (@22 °C)

12.4. Mobility in Soil: Cured adhesives are immobile.

12.5. Results of PBT and vPvB Assessment: No data available.

12.6. Other Adverse Effects: Do not empty into drains/ surface water/ ground water. Do not allow uncontrolled leakage of product into the environment.



13 DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

-Appropriate methods of waste treatment of substance: Cured adhesive: Disposal of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions.

-Appropriate methods of waste treatment of packaging: 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. Disposal must be made according to official regulations.

14 TRANSPORT INFORMATION

14.1. UN Number:

ADR/RID: 1993 IMDG: No data available IATA: 3334

14.2. Proper UN Shipping Name:

ADR/RID : COMBUSTIBLE LIQUIDS, N.O.S. (Cyanoacrylate ester)

IMDG : No data available

IATA : AVIATION REGULATED LIQUID, N.O.S. (Cyanoacrylate ester)

14.3. Transport Hazard Class(es):

ADR/RID: 3 IMDG: No data available IATA: 9

14.4. Packing Group:

ADR/RID: III IMDG: None IATA: III

14.5. Environmental Hazard: No data available.

14.6. Special Precautions for User: No data available.

14.7. Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15 REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations Specific for the Preparations

- OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- United States TSCA Inventory, (TSCA)

16 OTHER INFORMATION

16.1. Indication of Changes to the Previous Version

Date Prepared: 01.03.2013

Revision Date: 05.05.2015

Revision No: 2.4

16.2. Abbreviations and Acronyms

CFR: Code for Federal Regulations.

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

STEL: Short Term Exposure Limit.

OEL: Occupational exposure limit.

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

TWA: Time weighted average.

WEEL: Workplace Environmental Exposure Level.



SAFETY DATA SHEET

"According to Occupational Safety & Health Administration Standard-29 CFR and Subsequent Amendments"

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PBT: Persistent, bioaccumulative and toxic according to 1907/2006/EC, Annex XIII.

vPvB: Very persistent and very bioaccumulative according to 1907/2006/EC, Annex XIII.

CAS No: Chemical abstract service index number.

EC50: Half maximal effective concentration.

LC50: Median lethal concentration.

LD50: Median lethal dose.

16.3. Further Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. The company supplying entity shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

Department issuing SDS: Product safety department.

Contact: Product safety department support@akfix.com/info@akfix.com