

**Eximcorp India Pvt. Ltd.**  
KHASARA NO. 87/1, 50<sup>TH</sup> KM, MILESTONE, ROHTAK ROAD,  
NEAR SARASWATI DHARAM KANTA, NEW DELHI-110041, INDIA

This safety data sheet has been prepared in accordance with the requirements of EC Directives 1999/45/EC and 2001/58/EC and provides information relating to the safe handling and use of the product:

1. **Product and Company Information**

<b>Product Name</b>	Cyanoacrylate Adhesive
<b>Trade Name</b>	21 <sup>st</sup> Century
<b>Supplier</b>	Eximcorp India Pvt. Ltd.
<b>Address</b>	Khasara no. 87/1, 50 <sup>th</sup> km, Milestone, Rohtak Road, Near Saraswati Dharam Kanta, New Delhi-110041, India
<b>Phone Number</b>	Tel: 91 98910 38202
<b>Fax Number</b>	Fax:91 11 41063444

2. **Composition / Information on Ingredients**

Nature	- Cyanoacrylate Adhesive			
<b>Hazardous Components in Product</b>				
<b>Component Name</b>	<b>%WT</b>	<b>CAS</b>	<b>R Phrases</b>	<b>EC No</b>
Ethyl Cyanoacrylate	86-99	7085-85-0	Xi R36/37/38	230-391-5
Polymethyl Methacrylate	1-14	9011-12-7	Xi R36/37/38	n/e (polymer)

3. **Hazard Identification**

Danger Cyanoacrylate – Bonds skin and eyes in seconds.

Keep out of the reach of children.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and protective mask,

4. **First Aid Measures**

**Inhalation:** Remove to fresh air and rest.  
If recovery is not rapid call for prompt medical attention.

**Eyes:** Cyanoacrylates bond eyelids in seconds. Irrigate thoroughly with water for at least 15 minutes. Take care not to wash chemical from one eye to another. If the eyelid is bonded closed, do not force open. Cover with wet pad soaked in warm water. Get prompt medical attention, in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding).

**Skin:** Do not pull bonded skin apart. Remove contaminated clothing. 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, preferably after soaking in warm, soapy water. If irritation persists, obtain medical attention. In the case of large spills on skin, superficial burns may occur-treat accordingly.

**Ingestion:** Ensure that breathing passages are not obstructed. Give plenty of water to drink. Do not induce vomiting. The product will polymerize immediately in the mouth, making it almost impossible to swallow. Saliva will separate the solidified product from the mouth over a period of hours. Seek medical attention.

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**5. Fire-Fighting Measures**

**Suitable Extinguishers:** Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray/fog.  
**Unsuitable Extinguishers:** Direct water jets.  
**Hazardous Decomposition:** Toxic fumes are produced in fire (CO, CO<sub>2</sub>, nitrogen oxides).  
**Special Procedures:** Do not breathe decomposition products and fumes.  
Use approved self-contained breathing apparatus.  
Wear fire retardant clothing. Wear eye protection.  
Use water spray to cool containers.  
Prevent runoff from fire control from entering waterways.  
Large fires should only be dealt with by trained personnel.

**6. Accidental Release Measures**

**Exposure Controls:** Refer to Section 8 – Personal Protection. Ventilate area. Evacuate personnel.  
Use approved self-contained breathing apparatus.  
Do not allow spill to enter drains and watercourses.  
**Personal Protection:** Wear suitable respiratory protection in confined spaces.  
Wear polythene gloves.  
Use eye protection such as goggles to BS EN 166 Chemical Grade  
**Disposal Considerations:** Absorb in inert material such as sand or absorbent granules (do not use cloths) or polymerize slowly with water and scrape up. Dispose in accordance with local regulations.

**7. Handling and Storage**

**Handling:** Avoid skin and eye contact. Avoid inhalation of vapour. Ensure adequate ventilation – Local Exhaust Ventilation may be required.  
Wear eye protection and gloves. Ambient Relative Humidity should be >40% to minimize discomfort.  
**Storage:** Store in tightly closed labeled containers.  
Store in a cool, dry, well-ventilated area.

**8. Exposure Controls / Personal Protection**

**Occupational Exposure Limit:** OES for ethyl cyanoacrylate is 0.3 ppm = 1.5mg/m<sup>3</sup> (STEL 15 min. TWA, as stated in EH40/2000) Wear polythene gloves.  
Wear suitable overalls or apron if usage is large and change if contaminated.  
Wear suitable eye protection such as BS En 166  
Use in well-ventilated areas – Use mechanical ventilation if necessary to maintain vapour level below TLV. If excessive inhalation in a poorly ventilated areas is likely then use a respirator with filter type P  
After contact with skin wash off immediately

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9. **Physical & Chemical Properties**

<b>Appearance:</b>	Clear and almost colourless liquid ( black RT grades, 2 white RT)
<b>Odour:</b>	Sharp, Pungent
<b>pH:</b>	n/e
<b>Boiling point/range:</b>	>150° C
<b>Melting point/range:</b>	n/e
<b>Flash point:</b>	>85° C (C.O.C.)
<b>Flammability:</b>	NON-FLAMMABLE
<b>Auto flammability:</b>	n/e
<b>Explosive properties:</b>	None
<b>Oxidizing properties:</b>	None
<b>Vapour pressure:</b>	~ 0.2 mm
<b>Relative density:</b>	1.04 – 1.10 depending on grade
<b>Solubility:</b>	polymerizes in water ( Note – soluble in acetone)
<b>Vapour Density:</b>	n/e
<b>Viscosity:</b>	Various – from 3cP (water-thin) to gel
<b>Evaporation rate (Bu Ac =1):</b>	n/e (n/e=not established)

10. **Stability and Reactivity**

Stable at normal temperatures. Will polymerizes rapidly on contact with water.  
Material to avoid: strong oxidizing agents, water, alkalis, amines, alcohols.  
Conditions to avoid: high temperature, moisture & direct sunlight.  
No hazardous decomposition products when stored and handled correctly.

11. **Toxicological Information**

<b>Oral:</b>	LD50 oral-rat>5000mg/kg. Considered to have relatively low toxicity. Products is almost impossible to swallow, due to polymerization in mouth.
<b>Skin:</b>	LD50 skin-rabbit >2000mg/kg.
<b>Inhalation:</b>	see section 8 for OES

Acute effects: eye watering, irritation of nasal cavities and respiratory tract and irritation and redness at the site of skin contact. Repeated skin contact may possibly cause dermatitis in sensitive individuals. Prolonged and repeated over-exposure to high concentrations of vapours may lead to sensitizing.

12. **Ecological Information**

Ecotoxicity: No specific data available, but expected to be very low.  
Persistence: No specific data available  
Bio-accumulative potential: No specific data available  
Mobility: No specific data available, but expected to be very low.

13. **Disposal Considerations**

Polymerize adhesive by adding slowly to water (~10:1, adhesive: water).  
Add water to contaminated packaging and then dispose of.  
Do not discharge into drains or watercourses  
Dispose of in accordance with local regulations

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14. **Transport Information**

Not classified as hazardous for transport

15. **Regulatory Information**



**a) Risk & Safety**

**Danger – cyanoacrylate. Bonds skin and eyes in seconds. Keep out of the reach of children**

R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37 Wear suitable gloves.

**b) Other Regulations**

Health & Safety at Work etc. Act 1974

Control of Substances Hazardous to Health Regulations 1994

Environmental Protection Act 1990

Special Waste Regulations 1996

This Safety Data Sheet is compiled with reference to The Chemicals (Hazard Information and Packaging for Supply) regulations 1994 (CHIP2), which implement the Council Directives 67/548/EEC (The Dangerous Substances Directive) and 88/379/EEC (The Dangerous Preparations Directive), and subsequent amending regulations, up to and including The Chemicals (hazard Information and Packaging for Supply) Regulations 2000 (CHIP2000), which implements the 26<sup>th</sup> ATP of 67/548/EEC/

16. **Other Information**

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date.

Neither Eximcorp India Pvt Ltd nor its distributor companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein.

Attention of users is drawn to the possible hazards from improper use of the product(s).

This safety data sheet was prepared in accordance with Commission Directive 2001/59/EC adapting to technical progress for the 28th time Council Directive 67/548/EEC and Commission Directive 1999/45/EC