

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** MitreMax Instant Adhesive - Superglue

**Product code:** 03034

**Company name:** D.I.P.T Group Ltd  
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**Use of Substance/preparation:** Cyanoacrylate adhesives are instant bonding, almost single component adhesives that bond almost all close fitting smooth surfaces in seconds

## 2. HAZARDS IDENTIFICATION

**Main hazards:** - Irritating to eyes, respiratory system and skin.

**Other information:** - Bonds skin and eyes in seconds. Instant bonding adhesives, which polymerises rapidly on exposure to air, humidity or to alkaline – reacting substances at room temperatures. Prolonged or repeated over-exposure to high concentrations of vapours may lead to chronic sensitising effects in sensitive individuals.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:	Component	%* by weight	CAS No
	Ethyl-cyanoacrylate	<90	Xi: R36/37/38
	Polyalkylmethacrylate	<20	Xi: R36/37/38

## 4. FIRST AID MEASURES

**Skin contact:** - Do not pull bonded skin apart. Bonded areas may be gently peeled apart using a blunt object such as a spoon after soaking in warm soapy water.

**Eye contact:** - If the eye is bonded closed, release eyelashes with warm water by covering with wet pads. Cyanoacrylate will bond to eye protein causing lachrymatory effects, which will help debond adhesive. Keep eye covered until debonding is complete, usually within 1 - 3 days. Do not force eyes open. Medical advice should be sought in case of solid particles of cyanoacrylate being trapped behind the eye causing abrasive damage.

**Ingestion:** - Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours). Consult a doctor.

**Inhalation:** - There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** - Alcohol resistant foam, dry powder, carbon dioxide, water spray/fog.

**Unsuitable extinguishing media:** - Direct water jets

**Exposure hazards:** - In combustion emits toxic fumes (CO, CO<sub>2</sub>, nitrogen oxides).

**Protection of fire-fighters:** - Non-flammable product (flash point >80°C).  
- 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 run-off from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** - Wear suitable respiratory protection in confined spaces, wear polythene or polypropylene gloves. Use eye protection such as goggles to BS EN 166 Chemical grade.

**Environmental precautions:** - Do not allow spillage to enter waterways.

**Clean-up procedures:** - Absorb in inert material such as sand or absorbent granules (do not use cloths) or polymerise slowly with water and then scrape up. Dispose in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Handling:** - Ventilation (low level) is recommended when using large volumes or when odour becomes apparent ( odour threshold value is approximately 1-2 ppm) . Use of dispensing equipment is recommended to minimise the risk of eye contact. Avoid skin and eye contact.

**Storage conditions:** - Store in original containers at 5°C-28°C and do not return residual to containers as contamination may reduce the shelf life of bulk product.  
- Store away from sunlight.  
- Do not store alongside Lewis Base materials - Amines, ammonia.

**Suitable packaging:** - Must only be kept in original packaging

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hazardous ingredients:** - The TLV for the closely related methyl cyanoacrylate is 2ppm (ACGIH, TWA).  
- The OES for ethyl cyanoacrylate is 0.3ppm = 1.5mg/m<sup>3</sup> (STEL 15min.,TWA) (EH40/2000).

**Engineering measures:** - Ensure there is sufficient ventilation of the area and evacuate personnel.

**Respiratory Protection:** - Use approved self contained breathing apparatus

**Eye protection:** - Use eye protection such as goggles to BS EN 166 Chemical grade.

**Skin protection:** - Suitable protective clothing and gloves, wash skin immediately if there is contact with skin

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** - Clear Liquid
- Odour:** - Sharp characteristic
- Evaporation rate:** - Fast
- Flash Point (Closed Cup):** - 85°C
- Solubility in water:** - Immiscible (rapidly polymerises with water)
- Solubility in Chloroform:** - N/A
- Viscosity:** - 40cps to 1500cps
- Boiling point/range°C:** - 150°C
- Specific Gravity:** - 1.1g/ml approx. @ 20°C
- Vapour Pressure:** - <0.5 mmHg @ 25°C
- Flammability:** - Inflammable

## 10. STABILITY AND REACTIVITY

- Stability:** - Stable under normal conditions at room temperature. Polymerisation will occur in the presence of moisture, amines, ammonia and Lewis Bases.
- Conditions to avoid:** - High Temperatures, Moisture and Direct Sunlight.
- Haz. decomp. products:** - No hazardous decomposition products when stored and handled correctly.

## 11. TOXICOLOGICAL INFORMATION

- Inhalation:** - In dry atmosphere with <50% relative humidity, vapours may irritate the eyes and respiratory system. Prolonged exposure to high concentrations of vapours may lead to chronic effects in sensitive individuals.
- Skin:** - Bonds skin in seconds. Considered to be of low toxicity. Acute dermal LD50 (rabbit) >2000mg/kg. Due to polymerisation at the skin surface, allergic reaction is not considered possible.
- Eye:** - Liquid product will bond eyelids. In dry atmosphere (RH<50%) vapours may cause irritation and lachrymatory effects.
- Ingestion** - Cyanoacrylates are considered to have relatively low toxicity. Acute oral LD50 is >5000mg/kg (rat). It is almost impossible to swallow as it rapidly polymerises in the mouth.

## 12. ECOLOGICAL INFORMATION

- Persistence and degradability:** - Biodegradable products of low ecotoxicity.
- Other information:** - Does not contain and is not manufactured with any of the substances listed on the Montreal Protocol.

## 13. DISPOSAL CONSIDERATIONS

- Disposal operations:** - Polymerise by slowly adding water (10:1). Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.
- NB.:** - Dispose of in accordance with local and national regulations.

**14. TRANSPORT INFORMATION**

**UN Number:** - 3334

**Air (IATA):** - Class 9

**Sea (IMO):** - Not Classified

**Road/Rail (ADR/RID):** - Aviation Regulated Liquid, n.o.s (cyanoacrylate ester)

**15. REGULATORY INFORMATION**

**Risk phrases:** - R36/37/38 Irritating to eyes, respiratory system and skin.

**Safety phrases:** - S2 Keep out of reach of children.  
- S24/S25 Avoid contact with eyes.  
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
- S37 Wear suitable gloves

**Other phrases:** - DANGER, cyanoacrylate. Bonds skin and eyes in seconds.



IRRITANT

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

The information in this Safety Data Sheet was obtained from reputable sources and to the best of our knowledge, is accurate and current (on 03/12/2009). Maxitek does not 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).

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**Product code:** 03034  
**Company name:** D.I.P.T Group Ltd  
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## 2. HAZARDS IDENTIFICATION

**Main hazards:** - Highly Flammable. Do not expose to naked flame or high temperatures.  
**Other information:** - Solvent will produce a defatting action on skin, Causing susceptibility to dermatitis and sensitisation. Inhalation of vapours may cause dizziness.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients:	Component	%*	Hazard Class
	Aliphatic Hydrocarbons	0-60%	CAS 84742-89-8
	N. Hexane	<1%	CAS 84741-84-0
	Butane (propellant)	0-40%	CAS 88478-85-7

**Nature:** - Activating chemical for use with Cyanoacrylate Adhesives

## 4. FIRST AID MEASURES

**Skin contact:** - Wash with soap and warm water, and apply a fatty hand cream. Remove all contaminated clothing, including footwear and launder before reuse. If in doubt or irritation persists seek medical attention.  
**Eye contact:** - In case of eye contact chemicals may cause eye irritation. Rinse immediately with eyewash solution or copious amounts of water until irritation subsides. Seek medical attention.  
**Ingestion:** - In the unlikely event of the product being swallowed, drink plenty of water, at least half a pint, do not induce vomiting. Rest patient and seek medical attention.  
**Inhalation:** - Remove patient from exposure, keep warm and at rest. Do not walk the patient. Administer oxygen if necessary. Apply artificial respiration if breathing has ceased or shows signs of failing. During resuscitation, care must be taken to avoid contamination by the substance from the patient. Obtain immediate medical attention.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** - Water spray, dry powder or vaporising media, carbon dioxide, alcohol resistant foam.  
**Unsuitable extinguishing media:** - N/A  
**Exposure hazards:** - N/A  
**Protection of fire-fighters:** - Highly flammable.  
- Vapour/air mixture explosive.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** - Evacuate personnel from area.  
- Avoid inhaling the vapours and shut off source if possible

**Environmental precautions:** - Prevent liquid from entering sewers, watercourses & low areas. Absorb with sand or earth.

**Clean-up procedures:** - Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Dispose of according to local disposal regulations.

## 7. HANDLING AND STORAGE

**Handling:** - Take precautions against static discharge. All electrical equipment must be flameproof

**Storage conditions:** - Store in sealed containers in a cool dry place ( 5°C-20°C).  
- Isolate from heat, naked flames, sparks and direct sunlight.  
- Avoid static build up and avoid breathing vapour and spray mists.  
- Store in accordance with Health & Safety Executive recommendations (HSG 50-52)  
Flammable product store.

**Suitable packaging:** - Must only be kept in original packaging

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hazardous ingredients:** - Ingredients - 100ppm OES 8 hours TWA  
- N. Hexane - 20 ppm OES 8 hours TWA

**Respiratory Protection:** - Approved respirators may be necessary to avoid excessive exposure to vapours.

**Eye protection:** - Eye protection is advisable during use.

**Skin protection:** - Chemical resistant gloves are recommended to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** - Colourless Liquid

**Odour:** - Characteristic

**Colour:** - Clear

**Evaporation rate:** - Fast

**Flash Point (Closed Cup):** - -35°C

**Solubility in water:** - Immiscible in all proportions

**Vapour pressure:** - 12°C

**Melting temperature:** - 3.7 (air=1)

**Boiling point/range°C:** - 62°C

**Relative vapour density:** - 230°C

## 10. STABILITY AND REACTIVITY

- Stability:** - Stable under normal conditions at room temperature. Avoid Strong oxidising agents, nitric and sulphuric acids.
- Conditions to avoid:** - Heat, Sparks and Flame
- Haz. decomp. products:** - Will not polymerise. Burning will produce carbon monoxide and or carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

- Inhalation:** - Irritation symptoms in respiratory tract. Has a good warning property. Gas or vapour is harmful prolonged exposure or in high concentrations.
- Skin:** - Irritation
- Eye:** - Irritation
- Ingestion** - Respiratory paralysis, coma.

## 12. ECOLOGICAL INFORMATION

- Persistence and degradability:** - Dispose of in accordance with local and national regulations.  
- Product should not be disposed in drains, sewers or other watercourses.
- Other information:** - No environmental hazard is anticipated if handled with due care and attention.

## 13. DISPOSAL CONSIDERATIONS

- Disposal operations:** - Solvent residues should be transferred to properly labelled, sealed containers prior to collection by a responsible contractor either for recovery, incineration or landfill.  
- Prior to destruction and disposal, containers should be empty.
- NB.:** - Dispose of in accordance with local and national regulations.

## 14. TRANSPORT INFORMATION

- UN Number:** - 1950 aerosol
- CAS No.:** - 64742-89-8 9 (ingredients)
- Sea (IMO):** - 3.2/1219
- Road/Rail (ADR/RID):** - 2.10(b2)

**15. REGULATORY INFORMATION**

**EEC Classification:** - EEC-No: 200-661-7



**Risk phrases:** - R11 Highly flammable. **NO SMOKING**

**Safety phrases:**

- S2. Keep out of reach of children
- S7-16. Keep container tightly closed. Keep away from sources of ignition. **NO SMOKING**
- S9. Keep container in a well ventilated store
- S23. In case of contact with eyes, rinse immediately with plenty of water. Seek medical advice
- S28. In case of skin contact, wash immediately with plenty of water.

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