



MATERIAL SAFETY DATA SHEET

Cyanoacrylate Superglue Medium Viscosity

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Issue Date 18/09/06
Version 2.0
Revision Date 23/01/09

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

Product / Trade Name : IFI Superglue Medium Viscosity
Product / Stock Code : 36ORBGLUE20 (20g bottle)
36ORBGLUE50 (50g bottle)
Company Name :
IFI
Rutland Business Park
Newark Road
Peterborough
PE1 5WA
United Kingdom
Telephone :
Fax : +44 (0)1733 847520
+44 (0)1733 343465
Use Of Substance / Preparation :
Liquid Cyanoacrylate Adhesive

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Hazardous Components : ETHYL 2-CYANOACRYLATE
CAS No.007085-85-0
Xi
R36/37/38
Composition 90-95%

POLY (METHYL METHACRYLATE)
CAS No.9011-14-7
Composition 5-10%

3. HAZARDS IDENTIFICATION:

Main Hazards : Contains Cyanoacrylate.
Bonds skin and eyes in seconds. Irritant to eyes and skin.
Cyanoacrylates have been reported to cause allergic reactions but due to the rapid polymerization, allergic response is rare.
Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin. The solidified product does not present a health hazard when bonded to skin.

Other Hazards : Prolonged inhalation of large quantities may lead to non-allergic asthma.



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4. FIRST AID MEASURES:

Skin Contact	: Symptoms: Skin bonds together and possible irritation and redness at site of contact. Action: Do not force fingers or bonded areas apart. Wash affected area regularly with warm soapy water. If possible, gently peel apart using a blunt object. Separation should occur within 1-4 days. Seek immediate medical attention if skin is burned due to large amounts of product or if infection occurs after separation.
Eye Contact	: Symptoms: Eyes, eyelids and eyelashes bond together and possible irritation and redness of the eyes will occur. Action: Immediately flush eye(s) with plenty of cold water for 15 minutes minimum. If eyelids are bonded shut, release eyelashes first using a wet pad and warm water. Do not force eye open. Regularly bathe eyes in warm water. Separation should occur within 1-4 days. Cyanoacrylates will bond to the eyeball, producing tears will help de-bond the adhesive. Keep eye covered until de-bonding is complete, usually within 3 days. Solid particles from the polymerized product can cause abrasive damage. Always seek immediate medical assistance.
Ingestion	: Symptoms: The product will polymerize rapidly and bond to the mouth, making swallowing extremely difficult. Action: Regularly rinse mouth to release product, usually within 2 days. Prevent any further swallowing of the separated material. Never induce vomiting. Seek immediate medical assistance if in any doubt..
Inhalation	: Symptoms: Irritation of the nose and throat. Action: Remove casualty from further exposure into fresh air. Seek immediate medical assistance.

5. FIRE FIGHTING MEASURES:

Suitable Extinguishing Media	: Water spray, Foam, CO ₂ , Dry chemical.
Exposure Hazards	: In combustion emits CO, CO ₂ and others not determined.
Fire Fighting Protection	: Wear self-contained breathing apparatus and suitable protective clothing to prevent contact with skin and eyes.
Hazardous thermal decomposition products	Irritating organic vapours may be formed.

6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions	: Refer to section 8 of this MSDS for personal protection details. Gloves, overalls and eye/face protection are routinely recommended. If large quantities are involved then fresh-air breathing apparatus or solvent filter masks are recommended.
Environmental Precautions	: No harmful ecological effects known. Do not discharge into drains or rivers.
Methods For Cleaning Up	: Evacuate area. Contain spillage with sand or earth. Flood with water to complete polymerization and mechanically remove hardened product. Solid material can be disposed of as non-hazardous water in accordance with local authority regulations.



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7. HANDLING AND STORAGE:

Handling Requirements	: Avoid direct contact with the substance. Wear protective clothing and eye protection. Ensure sufficient ventilation of the area. Use fresh-air breathing apparatus or solvent filter masks when exposed to large quantities.
Requirements For Storage	: Store in original containers. Keep containers upright, tightly closed in a dry, cool and well ventilated place at temperatures between 5-25°C. Atmosphere relative humidity should be maintained at 50-60%.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Engineering Measures	: If general ventilation is insufficient to maintain vapour concentration below established exposure limits, use positive downdraft exhaust ventilation.
Hand Protection	: Wear Nitrile gloves and aprons to prevent contact. Do not use PVC, nylon or cotton.
Eye Protection	: Safety glasses with side-shields or goggles. Ensure eye bath is available and to hand.
Skin Protection	: Wear Nitrile gloves and aprons to prevent contact. Do not use PVC, nylon or cotton.
Respiratory Protection	: Self-contained breathing apparatus must be available in case of emergency.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance;

Form	: Liquid.
Colour	: Clear
Odour	: Sharp, irritating odour.

Safety data;

Boiling Point	: > 100°C
Melting Point	: Not determined.
Relative Density	: 0.80
Solubility In Water	: Immiscible in water.
Specific Gravity	: 1.1 at 25°C
Evaporation Rate	: Not known.
Flashpoint	: >81°C
Vapour Pressure	: < 0.5mm/Hg at 25°C



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10. STABILITY AND REACTIVITY:

Stability	: Stable under normal conditions. Stable at room temperature.
Conditions To Avoid	: Wet, damp, humid or conditions that could cause spontaneous polymerization.
Materials To Avoid	: Water, amines, alkalis and alcohols.
Hazardous Decomposing Products	: None known.

11. TOXICOLOGICAL INFORMATION:

Hazardous Ingredients	: ETHYL 2-CYANOACRYLATE: Estimated oral LD50 >2000mg/kg Estimated dermal LD50 >5000mg/kg Causes Severe Irritation. High concentrations are destructive to tissues of the mucous membranes and the upper respiratory tract.
Carcinogen Status;	
NTP Carcinogen	: No.
OSHA Carcinogen	: No.
IARC Carcinogen	: No.
Routes Of Exposure	: Refer to section 4 of this MSDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION:

Mobility	: Not determined
Persistence And Degradability	: Biodegradable.
Bioaccumulative Potential	: Not determined.
Other Adverse Effects	: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS:

Disposal Considerations	: Liquid / polymeric cyanoacrylates must be disposed of in accordance with the UK Environmental Protection Act 1990, or other relevant / local legislation outside the UK.
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14. TRANSPORT INFORMATION:

ADR / RID;

UN No. : Not required.
Packing Group : Not required.
ADR Class : 3
ADR Item No. : 32C
Hazard ID No. : 2301
Shipping Name : None hazardous adhesive.
Labelling : Not required.

IMDG / IMO;

UN No. : Not required.
Packing Group : Not required.
Class : 3
EmS : Not required.
Labelling : Not required.

IATO / ICAO;

UN No. : Not required.
Packing Group : Not required.
Class : 3
Packing Instructions : Not required.
Labelling : Not required.

15. REGULATORY INFORMATION:

Labelling According To
Chemicals (Hazard Information
and Packaging for Supply)
Regulations 2002 - CHIP3.1;

Hazard Symbols : Harmful Xi



Risk Phrases, which are listed in sections 2, 3 and 16 : R36/37/38 - Irritating to eyes, skin and respiratory system.

Safety Phrases, which are listed in sections 2, 3 and 16 : S23 - Do not breath vapour
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rise immediately with plenty of water and seek medical advise

Other Mandatory Phrases : Danger. Contains Cyanoacrylate. Bonds skin and eyes in seconds. Keep out of reach of children.

NB: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in this Material 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.



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16. OTHER INFORMATION:

R-phases, which are listed in sections 2	:	R36	- Irritating to eyes.
		R37	- Irritating to respiratory system.
		R38	- Irritating to skin.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the content of the Material Safety Data Sheet.