



MATERIAL SAFETY DATA SHEET

Cyanoacrylate Activator, 200ml

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Issue Date 19/10/06
Version 1.0
Revision Date 19/10/06

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

Product / Trade Name : IFI Cyanoacrylate Activator
Product / Stock Code : 36ACTIVATOR200
Company Name : IFI
Rutland Business Park
Newark Road
Peterborough
PE1 5WA
United Kingdom
Telephone : +44 (0)1733 847 520
Fax : +44 (0)1733 343 465
Use Of Substance / Preparation : Aerosol packed activator spray for cyanoacrylate adhesives.

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Hazardous Components : BUTANE
CAS No.106-97-8
EINECS No.203-448-7
F+
R12
Concentration 10.00% - 30.00%

HEPTANE
CAS No.142-82-5
EINECS No.205-563-8
F, Xn, Xi, N
R11, R65, R38, R67, R50/53
Concentration 30.00% - 60.00%

ISOBUTANE
CAS No.75-28-5
EINECS No.200-857-2
F+,
R12
Concentration 5.00% - 10.00%

N,N-DIMETHYL-PARA-TOLUIDINE
CAS No.99-97-8
EINECS No.202-805-4
F, T
R23/24/25, R33, R52/53
Concentration <1%

TETRAETHYLENE GLYCOL DIMETHYL ETHER
CAS No.143-24-8
Concentration <1%



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3. HAZARDS IDENTIFICATION:

- Main Hazards** : Extremely flammable. Explosive air/vapour mixtures may be formed even at normal room temperatures. When sprayed on a naked flame or any incandescent material the vapours can be ignited.
Irritating to skin.
Vapours may cause drowsiness and dizziness. Gas or vapour is harmful on prolonged exposure or in high concentration. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- Other Hazards** : Aerosol containers can explode when heated, due to excessive pressure build up.

4. FIRST AID MEASURES:

- Inhalation** : Move to fresh air in case of accidental inhalation of vapours or spray mist. Perform artificial respiration if breathing has stopped. Keep the casualty warm and at rest. Seek immediate medical attention.
- Skin Contact** : Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through.
- Eye Contact** : Immediately flush eye(s) with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart and continue to wash for at least another 15 minutes. Seek immediate medical attention.
- Ingestion** : Immediately rinse mouth and provide fresh air. Do not induce vomiting. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES:

- Suitable Extinguishing Media** : Extinguish with foam, carbon dioxide, dry powder or water fog. Water spray should be used to cool containers. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.
- Exposure Hazards** : Extremely flammable. Forms explosive mixture with air. May travel considerable distance to source of ignition and flashback. Aerosol cans may explode in a fire.
- Firefighting Protection** : Wear self-contained breathing apparatus and suitable protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES:

- Personal Precautions** : Ensure adequate ventilation. Avoid inhalation of vapours and aerosol spray mist. Use personal protective equipment. Eliminate all sources or potential sources of ignition.

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6. ACCIDENTAL RELEASE MEASURES (continued):

Environmental Precautions	: Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or suitable absorbent material/bunding.
Methods For Cleaning Up	: Extinguish all ignition sources. Ventilate. Absorb into earth or sand. Let evaporate. Keep out of confined spaces to prevent explosion risk. Do not use equipment in clean-up procedure which may produce sparks, flames or heat.

7. HANDLING AND STORAGE:

Advice On Safe Handling	: Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not smoke. Do not spray near a naked flame of any incandescent material.
Requirements For Storage	: Keep containers in a dry, cool and well ventilated place. Keep away from heat, sparks and open flame. Pressurized container, protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn container, even after use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Hand Protection Advice	: Due to the packaging form, i.e. aerosol, risk of skin contact is small. Use suitable nitrile rubber, PVA or Viton protective gloves.
Eye Protection	: Use approved chemical safety glasses where eye exposure is reasonably probable.
Hygiene Measures	: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and immediately after handling the product. When handling, do not eat, drink or smoke.
Protective Measures	: When using, do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance;	
Form	: Liquid aerosol spray mist.
Colour	: Clear.
Odour	: Perceptible odour –organic solvents
Safety data;	
Flash Point	: < -40°C
Auto Ignition Temp.	: 410°C - 580°C
Flammability Limit	: 1.8%



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10. STABILITY AND REACTIVITY:

Stability	: Stable under normal condition. Stable at room temperatures not exceeding 50°C.
Conditions To Avoid	: Avoid heat, sparks and naked flames, hot surfaces. Sources of ignition. Avoid exposing containers to high temperatures or direct sunlight.
Materials To Avoid	: Incandescent materials.
Hazardous Decomposing Products	: By fire, toxic gases CO, CO ² , NO _x may be formed.

11. TOXICOLOGICAL INFORMATION:

Routes of Exposure	: Refer to section 4 of this MSDS for routes of exposure and corresponding symptoms
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12. ECOLOGICAL INFORMATION:

Additional Ecological Information	: Ecotoxicological data for this product is not available but the product contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use, the volatility of the components and the packaging form, pressurised aerosol container, make entry into the aquatic environment unlikely. However, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.
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13. DISPOSAL CONSIDERATIONS:

Disposal	: The user's attention is drawn to the possible existence of regional and/or national regulations regarding the disposal of hazardous waste material and the disposal of empty contaminated packaging and materials. Empty containers must not be burned because of explosion hazard.
General Information	: Do not puncture or incinerate even when empty.

14. TRANSPORT INFORMATION:

General Information	: This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre, packed in cartons of less than 30kg gross weight, to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled, must follow the following;
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14. TRANSPORT INFORMATION (continued):

ADR / RID;

UN No. : 1950
Packing Group : n/a
ADR Class : 2.1 Flammable gases.
Classification Code : F1
Hazard ID No. : 23
Shipping Name : AEROSOLS
Labelling : 3
CEPIC TEC(R) No. : 20G53

IMDG / IMO;

UN No. : 1950
Packing Group : n/a
Class : 2.1
EMS : 2-13
IMDG Page No. : 2102

IATO /ICAO;

UN No. : 1950
Packing Group : n/a
Class : 2.1

15. REGULATORY INFORMATION:

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

Hazard Symbols : Extremely flammable.
Dangerous for the environment.
Harmful.



Risk Phrases, which are listed in sections 2, 3 and 16 : R12 - Extremely Flammable.
R38 - Irritating to skin.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 - Vapours may cause drowsiness and dizziness.

Safety Phrases, which are listed in sections 2, 3 and 16 : S2 - Keep out of the reach of children.
S16 - Keep away from sources of ignition. No smoking.
S23 - Do not breathe vapour/spray.
S24 - Avoid contact with skin.
S29/56 - Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S51 - Use only in well ventilated areas.

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, 3 and 15

: R11	- Highly flammable.
R12	- Extremely flammable.
R19	- May form explosive peroxides.
R23/24/25	- Toxic by inhalation, in contact with skin and if swallowed.
R33	- Danger of cumulative effects.
R38	- Irritating to skin.
R43	- May cause sensitisation bt skin contact.
R50/53	- Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R52/53	- Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R65	- may cause lung damage if swallowed.
R39/23/24/25	- Toxic; danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R65	- Harmful; may cause lung damage if swallowed.
R67	- vapours may cause drowsiness or dizziness.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of it's 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.