

Kincora

PRODUCT INFORMATION SHEET

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This Information Sheet is for products KIN MATE

MATERIAL SAFETY DATA SHEET:

PRODUCT: Mitre Mate® Activator - aerosol version

1. SUBSTANCE IDENTIFICATION:

Material/Trade Name: Mitre Mate® Activator - aerosol version
Material type: Activator for cyanoacrylate adhesives

2. COMPOSITION:

Substance		% Wt.	CAS No.	EC No.
Isopropanol	F: R11: Xi: R36 R67	50-90	67-63-0	200-861-7
Propane	F+: R12	5-20	74-98-6	200-827-9
Isobutane	F+: R12	2-10	75-28-5	200-857-2
Butane	F+: R12	5-20	106.97-8	203-448-7
Aromatic amine	T: R23/24/25 R33 R52/53	<1	proprietary	proprietary

3. HAZARD IDENTIFICATION:

EXTREMELY FLAMMABLE

IRRITATING TO EYES.

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

Keep away from sources of ignition - No smoking.

Do not breathe vapour. Avoid contact with skin and eyes.

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

Use only in well-ventilated areas.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use. Do not spray on a naked flame or any Incandescent material.

4. FIRST-AID MEASURES:

Inhalation: Remove to fresh air and rest, if not breathing, give artificial respiration. If recovery is not rapid call for prompt medical attention

Eyes: Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to

another. Get prompt medical attention

Skin: Remove contaminated clothing Wash with soap/cleanser and rinse with plenty of water

If irritation persists, obtain medical attention

Ingestion: Do not induce vomiting. Beware of aspiration if vomiting occurs Rinse mouth. Give plenty of water to drink. Seek medical attention Immediately

5. FIRE-FIGHTING MEASURES:

Suitable Extinguishers: Alcohol resistant foam

Dry powder

Carbon dioxide

Unsuitable Extinguishers: Direct water jets

Hazardous Decomposition: Possible risk of explosion. Toxic fumes are produced in fire – CO, CO₂: oxides of nitrogen possibly evolved.

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: Remove all sources of ignition. Ventilate area. Evacuate all personnel, Use barriers to prevent unauthorised entry into contaminated areas. Do not allow spill to enter drains and watercourses.

Personal Protection: Wear suitable respiratory protection for large spillages and in confined spaces, e.g EN405 FFA2 or EN140 A2. Wear rubber gloves. Wear chemically resistant overalls and boots. Use eye protection such as goggles to BS EN 166 Chemical Grade

Disposal Considerations: Absorb in Inert material such as sand or absorbent granules. Scoop up and place in plastic container to await transfer. Do not pierce or burn, even after use. Dispose in accordance with local regulations.

7. HANDLING AND STORAGE:

Handling: Avoid skin and eye contact. Avoid inhalation of vapour. Ensure adequate ventilation and/or use local extraction. Wear gloves and eye protection. Do not spray on a naked flame or any incandescent material. Keep away from sources or ignition - beware of distant ignition.

Storage: Store away from ignition sources. Store upright in a cool, dry, well-ventilated area out of sunlight. Pressurised container, protect from sunlight and do not expose to temperatures exceeding 50°C

8. EXPOSURE CONTROLS:

Occupational Exposure Limit: OES for isopropanol is
400ppm (999mg/m³) 8hr TWA and
500ppm (1250mg/m³) 15min STEL (EH40/2000).

Section 8 (continued):

Wear rubber gloves. After skin contact, wash with plenty of water. Wear suitable eye protection such as BS EN 166. Use in well ventilated areas. Use mechanical ventilation if level is above OES. If excessive inhalation in a poorly ventilated area is likely then use a respirator with filter type A

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Clear, almost colourless liquid
Odour:	Light solvent (Isopropanol) - like rubbing alcohol
pH:	n/e
Boiling point/range:	n/e
Melting point/range:	n/e
Flash point:	- 40°C
Flammability:	Extremely Flammable
Autoflammability:	-410°C
Explosive properties:	LEL 1.8%; UEL 12.7%
Oxidising properties:	None
Vapour pressure:	-33mmHg at 20°C
(at 50°C vapour pressure is -36.4mmHg)	
Relative density:	n/e
Solubility in water:	Slightly soluble
Vapour Density:	n/e
Viscosity:	n/e
Evaporation rate (DEE=1):	2.8
(n/e = not established)	

10. STABILITY AND REACTIVITY:

Stable at normal temperatures.

Conditions to avoid: Sources of Ignition, high temperature, direct sunlight.

Materials to avoid: Oxidising agents, reducing agents.

11. TOXICOLOGICAL INFORMATION:

Oral: LD50 (rat) is 5840mg/kg

Inhalation: -

Skin: -

Acute effects:

Ingestion: Nausea, narcosis

Inhalation: Mild irritation of nose and throat. Nausea Narcosis at high concentration. Vapours can cause drowsiness or dizziness

Skin: Mild irritation Product can be absorbed through the skin, which can lead to narcosis. Prolonged or repeated contact can cause skin dryness or cracking;

Eyes: Causes moderate irritation;

Repeated over-exposure may cause damage to CNS.

12. ECOLOGICAL INFORMATION:

Ecotoxicity: Considered to be very low

Persistence: Considered to be very low

Bioaccumulative potential: Very readily biodegradable
Mobility: No specific Information

13 DISPOSAL CONSIDERATIONS:

Do not discharge into drains or watercourses.

Pressurised container protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Dispose through properly licensed contractors under national and local legislation.

Dispose of in accordance with the Special Waste Regulations 1998

14. TRANSPORT INFORMATION:

UN No:	1950
IMO:	Class 2
Packing Group:	II
IATA/TCAO:	Class 2
Packing Group:	II
ADR/RID:	Class 2
Transport Name (UK Road):	Aerosols, Flammable, n.o.s
HazChem Code:	

15. REGULATORY INFORMATION:

a) Risk & Safety:	R12	EXTREMELY FLAMMABLE
	R36	IRRITATING TO EYES
	R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS
	S16	Keep away from sources of ignition - No smoking
	S23	Do not breathe vapour
	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
	S51	Use only in well-ventilated areas

Pressurised container protect from sunlight and do not expose to temperatures exceeding 50C. Do not pierce or burn, even after use. Do not spray on a naked flame or any Incandescent material.

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 26th ATP of 67/548/EEC

16. OTHER INFORMATION:

Not applicable

MATERIAL SAFETY DATA SHEET

PRODUCT REFERENCE: Mitre-Mate® Cyanoacrylate Adhesive

1. IDENTIFICATION OF THE PREPARATION AND OF THE MANUFACTURER:

- 1.1 Identification of the substance: Mitre-Mate® Cyanoacrylate Adhesive.
1.2 Purpose of use: Adhesive bonding.
1.3 Manufacturers information: Chemence Limited, Princewood Road, Corby,
Northamptonshire, NN17 4XD, United Kingdom.
Tel: +44 (0) 1536 402600 Fax: +44 (0) 1536 400266

2. COMPOSITION / INFORMATION ON INGREDIENTS:

This section shows the identification of hazardous constituents that contribute to the classification of the preparation plus other contents where relevant. This product contains the following components in percentages less than those shown.

Component	CAS No.	% by weight
Ethyl cyanoacrylate	7085-85-0	<90
Polyalkylmethacrylate homopolymer	9011-14-7	<20
Fillers / Stabilisers	-	<10

3. HAZARDS IDENTIFICATION:

- 3.1 Hazards identification: Xi: Irritant R36/37/38 Irritating to eyes, respiratory system and skin.
3.2 Further Information: Bonds skin and eyes in seconds. Instant bonding adhesive 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.

4. FIRST AID MEASURES:

- 4.1 Inhalation: Remove subject to fresh air. If breathing is difficult, give oxygen.
4.2 Eye contact: Cyanoacrylates bond eyelids in seconds. In such a case irrigate thoroughly with water for 15 minutes. If the eyelid is bonded closed, release eyelashes with warm water by covering with wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein causing lachrymatory effect which will help to de-bond the adhesive. Keep eye covered with wet pad until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage.
4.3 Skin contact: Wash the skin thoroughly with soap and water. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon preferably after soaking in warm soapy water. Seek medical advice.
4.4 Ingestion: Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it impossible to swallow. Saliva will slowly separate the solidified product from the mouth over several hours.
4.5 Other information: On contact with the body, a noticeable local temperature rise will be experienced. This is perfectly normal and is due to the exothermic polymerisation reaction.

5. FIRE FIGHTING MEASURES:

- 5.1 Suitable extinguishing media: Dry Powder, foam, carbon dioxide.
5.2 Particular danger from combustion products: Trace amounts of toxic fumes, CO, CO₂ and oxides of nitrogen may be released on incineration and the use of breathing apparatus is recommended.

5.3 Special protective equipment: For large quantities, self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES:

6.1 Personal precautionary measures: Refer to section 8 -personal protection. For large spills, evacuate the area and ensure good ventilation if possible - wear self-contained breathing apparatus if necessary. Wear suitable protective clothing.

6.2 Environmental protection measures: Polymerise slowly before disposal - see section 13.

6.3 Procedure for cleaning / absorption: For large spills wear self-contained breathing apparatus. Do not use cloths for mopping up. Polymerise slowly with water and scrape up.

7. HANDLING AND STORAGE:

7.1 Handling: Ensure good ventilation - Local Exhaust Ventilation may be required.

Relative humidity should be >50% to minimise discomfort. Wear safety goggles and chemically resistant gloves. If handling large quantities, wear suitable protective clothing.

7.2 Storage: Store in cool, dry, ventilated place out of direct sunlight. Store upright in original containers at 3-25°C and do not return used product to containers as impurities will reduce the shelf life of the product. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

8.1 Occupational Exposure Limits: OES for ethyl cyanoacrylate is 0.3ppm = 1.5mg/m³ (STEL 15min., TWA). (EH40/2000)

8.2 Personal protection measures:

A. Respiratory protection: Ensure good ventilation - Local Exhaust Ventilation may be required to maintain vapour concentration below TLV. If handling large quantities, self-contained breathing apparatus may be required.

B. Skin protection: Wear chemically resistant gloves (polypropylene, polyethylene, nitrile, viton, etc.). If handling large quantities, wear suitable protective clothing.

C. Eye protection: Wear safety glasses/goggles, especially where there is a risk of splashing. A full face mask should be worn when pouring large quantities.

8.3 Other information: If the product splashes on to clothing, remove and wash clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Virtually clear and colourless liquid.
Odour:	Characteristic, pungent.
Specific gravity @20°C:	1.08gm/ml.
Melting point:	> -10°C.
Boiling point / Range:	>100°C
Flash point (C.O.C.):	>87°C
Explosive limits @25°C (%vol in air):	
Lower:	N.A.
Upper:	N.A.
Autoignition temperature,°C:	N.A.
PH:	N.A.
Relative vapour density (air = 1):	3
Vapour pressure (mmHg at 20°C):	0.2-0.5mm Hg
Viscosity @25° C (Brookfield):	1300 1700cP
Solubility in water:	None - product is polymerised by water.

Additional information:

Soluble in acetone.

10. STABILITY AND REACTIVITY:

10.1 Conditions to be avoided: Adhesive will polymerise rapidly in contact with water.

10.2 Substances to be avoided: Water, alkalis, alcohols and amines.

10.3 Hazardous products of combustion or decomposition: Trace amounts of toxic fumes, CO, CO₂ and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION:

11.1 Toxicity:

A. Oral: LD50 orl-rat:>5000mg/kg. Considered to have relatively low toxicity. Product is almost impossible to swallow, as it polymerises in the mouth first.

B. Inhalation:-

C. Skin:LD50 skn-rbt:>2000mg/Kg

D. Other:-

11.2 Acute effects: Irritating to eyes, respiratory system and skin, Lachrymatory effect.

Prolonged or repeated over-exposure to high concentrations of vapours may lead to chronic sensitising effects in sensitive individuals.

11.3 Other information: Bonds skin and eyes in seconds.

12. ECOLOGICAL INFORMATION

12.1 Data on elimination (persistence and degradability): Product is biodegradable.

12.2 Bio-accumulation potential:

Ecotoxicity: Low.

13. DISPOSAL CONSIDERATIONS:

Product: Polymerise adhesive by adding slowly to water (10:1. Adhesive:Water).

Dispose of solid residue according to national and local regulations.

Contaminated packaging: As above.

14. TRANSPORT INFORMATION:

UN no.: N.A.

IATA: N.A.

IMDG: N.A. Not a marine pollutant.

ADR/RID: N.A.

Further information: Not classified as hazardous for transportation.

15. REGULATORY INFORMATION

Symbol(s) for Supply and Indication(s) of Danger.

Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S2 Keep out of the reach of children.

S25 Avoid contact with eyes.

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

Other phrases: Danger: Cyanoacrylate. Bonds skin and eyes in seconds.

Relevant regulations:

This Safety Data Sheet complies with The Chemicals (Hazard information and Packaging for Supply) Regulations 1994 (CHIP 2), 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) (Amendment) (No.2) Regulations 1999 (CHIP 99(2)), which implements the 25th ATP of 67/548/EEC, and The Chemicals (Hazard Information and Packaging for Supply) Regulations 1999 (Amendment) (No.3) (CHIP 99(3)), which implements the 16th amendment to the Council Directive 76/769/EEC.

16. OTHER INFORMATION

The data presented in this sheet corresponds to the present level of our knowledge and experience and is intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities , it remains the customers' responsibility to ensure safe working practices. Attention is drawn to the possible hazards from improper use of the product.

Neither the company nor their distributors accept any liability for loss or damage arising directly or indirectly from the use of this product. Customers should satisfy themselves by appropriate trials that each product is suitable for its intended use.