

Issue Date: 24/04/2002 **Revision Number:** 4

Document Number: 01-005-201

Material/Trade Name: Mitre Mate® Activator – aerosol version

1 - Substance Identification *

| | |
|----------------------------|---|
| Material/Trade Name | : Mitre Mate® Activator – aerosol version |
| Material type | : Activator for cyanoacrylate adhesives |
| Company | : Chemence Limited |
| Address | : Princewood Road Corby Northants NN17 4XD |
| Telephone | : 01536 402600 |
| Fax | : 01536 400266 |
| Emergency Telephone | : 01536 402600 |

2 – Composition *

| Substance | | % Wt. | CAS No. | EC No. |
|----------------|-------------------------|-------|-------------|-------------|
| Isopropanol | F: R11; Xi: R36 R67 | 50-90 | 67-63-0 | 200-661-7 |
| 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 *

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| 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 |

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5 - Fire-fighting Measures *

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| 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, CO ₂ , 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 *

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| 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 *

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| 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 of 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).

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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 airborne 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

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| 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 *

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| | Stable at normal temperatures. |
| Conditions to avoid: | Sources of ignition, high temperature, direct sunlight. |
| Materials to avoid: | Oxidising agents, reducing agents. |

11 - Toxicological Information *

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| Oral: | LD50 (rat) is 5840mg/kg |
| Inhalation: | - |
| Skin: | - |
| Acute effects: | <u>Ingestion</u> – Nausea, narcosis. |
| | <u>Inhalation</u> – Mild irritation of nose and throat. Nausea. Narcosis at high concentration. Vapours can cause drowsiness or dizziness |
| | <u>Skin</u> – Mild irritation. Product can be absorbed through the skin, which can lead to narcosis. Prolonged or repeated contact can cause skin dryness or cracking. |
| | <u>Eyes</u> – Causes moderate irritation. |
| Repeated over-exposure may cause damage to CNS. | |

12 - Ecological Information *

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|---------------------|---------------------------|-----------------------------------|----------------------------|
| Ecotoxicity: | Considered to be very low | Bioaccumulative potential: | Very readily biodegradable |
| Persistence: | Considered to be very low | Mobility: | No specific information |

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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 1996

14 -Transport Information *

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

15 - Regulatory Information *



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| 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 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

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| 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.

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| 16 - Other Information * | Not Applicable |
|---------------------------------|----------------|