

TITLE: METROLOK CYANOACRYLATE ACTIVATOR - AEROSOL**1. Identification of Substance and Company**

Identification of substance: Cyanoacrylate Activator Aerosol
Purpose of use: Increase speed of cyanoacrylate adhesive bonding.
Manufacturers Information: Metrodent Limited, Lowergate Works, Lowergate, Paddock, Huddersfield HD3 4EP. Tel: 01484 461616 Fax: 01484 462700

2. Composition Information

This section shows the identification of hazardous constituents which 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
Isopropanol (propan-2-ol)	67-63-0	50-90
Propane	74-98-6	5-20
Isobutane	75-28-5	2-10
Butane	106-97-8	5-20

3. Hazard Identification

F+, R12: Extremely Flammable; Xi: Irritant R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.
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 subject to fresh air. Perform artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.
Eye Contact: Flush eyes immediately with copious quantities of water for at least 15 minutes - assure adequate flushing by separating the eyelids with clean fingers. If irritation persists, seek medical attention.
Skin Contact: Wash the skin thoroughly with soap and water. If irritation persists, seek medical attention.
Ingestion: Do NOT induce vomiting. Give water to drink. Seek prompt medical attention. Provide the subject with rest, warmth and fresh air.

5. Firefighting Measures

Suitable extinguishing media: Dry powder, foam, carbon dioxide, water spray, sand.
Particular danger from combustion: Aerosol cans may explode in a fire (or if heated). Use water spray to cool cans close to any fire. CO and/or Co2 may be produced during a fire.
Special protective equipment: For large quantities, self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Personal precautionary measures: Refer to section 8 - personal protection. Eliminate all sources of ignition and heat. For large spills, evacuate the area and ensure good ventilation if possible - do not breathe vapour/spray. Wear self-contained breathing apparatus if necessary. Wear suitable protective clothing.
Environmental protection measures: Do not allow material to enter drains or watercourses.
Procedure for cleaning/absorption: Contain spillage with sand or other inert absorbent material, sweep up into a closed container and dispose of by incineration in suitable chamber.

7. Handling and Storage

Handling: Eliminate all sources of ignition (including static discharges) and heat - no smoking. Do not spray on a naked flame or any incandescent material. Ensure good ventilation - do not breathe vapour/spray. Wear safety goggles. Gloves are advisable. If handling large quantities, wear suitable protective clothing.
Storage: Store upright in a cool, dry, well ventilated place out of direct sunlight. Pressurised container: do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: OES for Isopropanol of 400ppm (8hr, TWA) is recommended; STEL is 500ppm (15min.).
Personal protection measures:
A) Respiratory protection: Ensure good ventilation - local exhaust ventilation may be required, especially in confined spaces, to maintain vapour concentration below TLV. Self contained breathing apparatus may be required in extreme cases.
B) Skin Protection: Gloves are advisable. If handling large quantities, wear suitable protective clothing.
C) Eye Protection: Wear safety goggles/glasses
D) Other Information: Ensure water for eye-washing is available. Wash hands after use.

9. Physical and Chemical Properties

Appearance: Aerosol which emits a clear spray
Odour: Light, characteristic of rubbing alcohol
Specific gravity@20°C: N/A
Boiling Point/Range: N/A
Flash point (CC): -40°C
Explosive Limits@25°C(%vol in air) Lower: 1.8, Upper: 12.7
Autoignition temperature, °C: 410
pH: N/A
Relative vapour density (air=1): 2.7
Vapour pressure(mmHG at 20°C): 33.0
Viscosity: N/A
Evaporation rate (DEE=1): 2.8
Solubility in water: Slightly soluble
Additional information: Soluble in alcohols, ether.

TITLE: METROLOK CYANOACRYLATE ACTIVATOR - AEROSOL**10. Stability and Reactivity**

Conditions to be avoided: Flames, sources of ignition and heat.
Substances to be avoided: Strong oxidising agents, alkalis and mineral acids.
Hazardous products of combustion or decomposition: CO, CO₂ and trace amounts of oxides of nitrogen.
Product is very stable under normal conditions.

11. Toxicological Information

Toxicity.

- A) Oral: LD50 orl-rat: 5840mg/kg.
B) Inhalation: -
C) Skin: -
D) Other: -

Acute effects: Irritating to eyes. Vapours may cause drowsiness and dizziness. Prolonged over-exposure to vapours may irritate respiratory system. Vapours may cause CNS depression, nausea, sickness and headaches.

Other information: Prolonged and repeated contact can lead to drying and defatting of the skin.

12. Ecological Information

Data on elimination (persistence and degradability): N/D
Bio-accumulation potential: Ecotoxicity: N/D

13. Disposal Considerations

Product: Pressurised container: Do not pierce or burn, even after use.
Dispose of according to national and local regulations.
Contaminated packaging: As above

14. Transportation Information

UN No. 1950
IATA Class 2.1
IMDG No.2102; Class 2; EmS No 2-13; MFAG Tab. No. 620;
Not a marine pollutant.
ADR/RID Class 2.1 Item 5°F. Marginal No 2201
Proper Shipping Name: Aerosols, Flammable, nos (contains LPG)
Further Information None

15. Regulatory Information

Symbols for supply and indication of danger: Extremely Flammable
6 Irritant

Risk Phrase: R12 Extremely Flammable
R36 Irritating to eyes
R67 Vapours may cause drowsiness and dizziness.

Safety Phrases: S2 Keep out of the reach of children
S16 Keep away from sources of ignition - No smoking
S23 Do not breathe vapour/spray
S24/25 Avoid contact with eyes,
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.
S51 Use only in well ventilated areas.

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) (No3) (CHIP 99(3), which implements the 16th amendment to the council directive 76/769/EEC.

16. Other Information

Sections marked* have been amended from the last version.

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.