

Issue Date: 16/04/2002 **Revision Number:** 1

Document Number: 01-005-078

Material/Trade Name: RiteLok AC11 activator – aerosol version

1 - Substance Identification

| | |
|----------------------------|---|
| Material/Trade Name | : RiteLok AC11 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. |
|--|---|---------------|--------------------------|--------------------------|
| Aliphatic hydrocarbons (containing n-hexane) | F: R11 Xn: R65 (F: R11 R62 Xn: R65, 48/20 Xi: R38 R67 N:R51/53) | 50-90 (<3) | 64742-49-0 (110-54-3) | 265-151-9 (203-777-6) |
| 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.
Keep away from sources of ignition - No smoking.
Do not breathe vapour/spray
Avoid contact with skin.
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 If there is any discomfort, get prompt medical attention |
| Skin: | Remove contaminated clothing Wash with soap/cleanser and rinse with plenty of water If any irritation persists, obtain medical attention |
| Ingestion: | Do not induce vomiting. Beware of aspiration if vomiting occurs Give nothing by mouth. Seek medical attention immediately |

Material Safety Data Sheet

Issue Date: 16/04/2002 **Revision Number:** 1

Document Number: 01-005-078

Material/Trade Name: RiteLok AC11 activator – aerosol version

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, CO ₂ | | |
| 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 spills or water run-off 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 Dispose in accordance with local regulations |

7 - Handling and Storage *

| | |
|------------------|--|
| Handling: | Avoid skin and eye contact. Do not breathe vapour - ensure adequate ventilation and/or use local extraction. Wear gloves, eye protection. Wear suitable protective clothing if handling large quantities. Wash hands after use. 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 direct sunlight. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. |

8 - Exposure Controls *

Occupational Exposure Limit: OES for aliphatic hydrocarbons is 250ppm (1000mg/m³) 8hr TWA (UK Solvent Industry Association).

Issue Date: 16/04/2002 Revision Number: 1

Document Number: 01-005-078

Material/Trade Name: RiteLok AC11 activator – aerosol version

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 *

| | |
|--|--|
| Appearance | : Clear, almost colourless to pale yellow liquid |
| Odour | : Light, paraffinic |
| pH | : n/e |
| Boiling point/range | : n/e |
| Melting point/range | : n/e |
| Flash point | : -40°C (Closed cup) |
| Flammability | : Extremely Flammable |
| Autoflammability | : >400 °C |
| Explosive properties | : LEL 1.0%; UEL 9.5% |
| Oxidising properties | : None |
| Vapour pressure | : ~19kPa at 20 °C |
| Relative density | : 0.70 |
| Solubility in water | : Insoluble. Soluble in most organic compounds. |
| Vapour Density | : ~2.5 |
| Viscosity | : n/e |
| n-Octanol/water partition coefficient (log POW): | ~4 |
| Evaporation rate (nBuAc = 1) | : 7.6 (n/e = not established) |

10 - Stability and Reactivity

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

11 - Toxicological Information *

| | |
|---|--|
| Oral: | Expected to be low toxicity LD50 >2,000mg/kg |
| Inhalation: | Low toxicity, LC50 > 5g/l |
| Skin: | Expected to be low toxicity LD50 >2,000mg/kg |
| Acute effects: | <u>Ingestion</u> – Nausea, narcosis. |
| | <u>Inhalation</u> – Mild irritation of nose and throat. Nausea. Narcosis at high concentration. |
| | <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> – Not expected to cause irritation. |
| Repeated over-exposure may cause damage to CNS. | |

12 - Ecological Information *

| | |
|--------------|---|
| Ecotoxicity: | Fish: Slightly toxic, 10 < LC/EC/IC50 ≤ 100mg/l |
| | Invertebrates: Toxic, 1 < LC/EC/IC50 ≤ 10mg/l |

* = changed from previous version; n/e = not established

Page 3 of 4

Material Safety Data Sheet

Issue Date: 16/04/2002 Revision Number: 1

Document Number: 01-005-078

Material/Trade Name: RiteLok AC11 activator – aerosol version

| | |
|-----------------------------------|---|
| Section 12 (continued): | Algae: Slightly toxic, $10 < \text{LC/EC/IC50} \leq 100\text{mg/l}$ Bacteria: Expected to be toxic, $< \text{LC/EC/IC50} \leq 10\text{mg/l}$ |
| Bioaccumulative potential: | Has the potential to bioaccumulate |
| Persistence: | Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air. Integrated environmental half-life expected to be <10 days. |
| Mobility: | Insoluble in water – floats on surface. Product is volatile and so will partition to the air phase |

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

| | | | |
|-------------------|---------|----------------------------------|-----------------------------|
| 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 | | |

15 - Regulatory Information *



a) Risk & Safety R12 EXTREMELY FLAMMABLE

- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe vapour/spray
- S24 Avoid contact with skin.
- 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.

The aliphatic hydrocarbons component in this product contains <0.1% benzene by weight, hence the classification as a carcinogen does not apply (see note P in the Approved Supply List supporting the CHIP regulations).

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

* = changed from previous version; n/e = not established

Page 4 of 4