



Safety Data Sheet

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LASAL 101

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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| Commercial name | LASAL 101 |
| Product name | Carbon Monoxide, Carbon Dioxide, Nitrogen in Helium |
| Chemical name/formula | CO, CO ₂ , N ₂ in He |
| Company identification | See header and footer |
| Emergency phone no. | See footer |

2. COMPOSITION / INFORMATION ON INGREDIENTS

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|-----------------------|--------------------------|
| Substance/Preparation | Substance |
| Components/Impurities | Carbon Monoxide: 1 – 3% |
| | Carbon Dioxide: 7-10% |
| | Nitrogen: 7-10% |
| | Helium: 77-85% |
| CAS No. | 630-08-0 Carbon Monoxide |
| | 124-29-9 Carbon Dioxide |
| | 7727-37-9 Nitrogen |
| | 7440-59-7 Helium |

3. HAZARDS IDENTIFICATION

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| General | <ul style="list-style-type: none">Very toxic by inhalation. In high concentrations may cause headache, dizziness, palpitations, weakness, nausea and followed by convulsions, fainting and death.Because it is a colorless and odourless gas, nothing will warn from its presence, except for the above symptoms. |
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4. FIRST-AID MEASURES

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| Inhalation | <ul style="list-style-type: none">If inhaled, and persons still conscious, they must be brought far from uncontaminated area and allow to breathe fresh air. Wear self-contained breathing apparatus when moving victim.Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. |
| Skin/Eye contact | <ul style="list-style-type: none">No adverse effects anticipated. |
| Ingestion | <ul style="list-style-type: none">Ingestion is not considered a potential route of exposure. |

5. FIRE-FIGHTING MEASURES

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| Specific hazards | <ul style="list-style-type: none">Exposure to fire may cause containers to rupture or explode. |
| Hazardous combustion products | <ul style="list-style-type: none">Products of combustion are carbon oxides and nitrogen oxides. |
| Suitable extinguishing media | <ul style="list-style-type: none">All known extinguishants can be used. |
| Specific methods | <ul style="list-style-type: none">If possible, stop flow of product.Move container away or cool with water from a protected position. |

5. FIRE-FIGHTING MEASURES (continue)

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| Special protective equipment (for fire fighters) | <ul style="list-style-type: none">In confined spaces, use a self-contained breathing apparatus. |
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6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions | <ul style="list-style-type: none">Evacuate area.Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.Ensure adequate air ventilation.Try to stop release. |
| Environmental precautions | |
| Clean up methods | <ul style="list-style-type: none">Ventilate area. |

7. HANDLING & STORAGE

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| General | <ul style="list-style-type: none">Suck back of water into the container must be prevented. Do not allow back-feed into the container.Use only properly specified equipment, which is suitable for this product, its supply pressure and temperature.Keep container below 50°C in a well-ventilated place.Refer to SOXAL's booklet on "safe handling, transport and storage of compressed gas cylinder" or contact SOXAL if in doubt. |
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8. EXPOSURE CONTROLS & PERSONAL PROTECTION

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| Exposure limit value (Carbon Monoxide, CO) | <ul style="list-style-type: none">25 ppm PEL Short Term |
| Exposure limit value (Carbon Dioxide, CO ₂) | <ul style="list-style-type: none">5,000 ppm PEL Short Term30,000 ppm PEL Long Term |
| | Engineering controls |
| Person protection | <ul style="list-style-type: none">Respiratory protection required.General PPE required. |

9. PHYSICAL & CHEMICAL PROPERTIES

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|---------------------------|-----------------------------|
| Molecular weight | Not applicable |
| Melting point | - 265°C |
| Boiling point | Not applicable |
| Critical temperature | - 147°C (Nitrogen) |
| Relative density, gas | 0.28 (air = 1) |
| Relative density, liquid | Not applicable |
| Vapour pressure @ 20°C | Not applicable |
| Solubility mg/l water | Partially soluble |
| Appearance/Colour | Colorless gas |
| Odour | No odour warning properties |
| Auto-ignition temperature | Not applicable |
| Flammability range | Not flammable |

For product and/or safety enquiry, please send, call, fax or log on to:

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