

- Phosgenation
- Reductions

Raylo Chemicals products include specialty polymers and other fine chemicals for high technology industries. Over 150 compounds are currently in production and for many of these, Raylo is the sole or principal world manufacturer.

Average Work Force: PhDs – 8
Technicians & Operators – 11
Others – 5

Gross Sales: 1980 – \$1.2M
1981 – \$1.4M
1982 – \$2.5M
1983 – \$2.7M

Plant Size: 10,000 sq ft
6,000 sq ft (Laboratory + Library)

Equipment: Raylo Chemicals has well equipped laboratories with the following instruments – 60 MHz proton magnetic resonance spectrometer; infrared and ultraviolet spectrophotometers; high performance liquid chromatograph, equipped with a variable wavelength ultraviolet detector with stop-flow capability; gas chromatograph, both packed column and capillary column, with FID and TC detectors; size exclusion chromatography system with differential refractometer; and other up to date chemical, biochemical and physical equipment.

Under an established arrangement with the University of Alberta, high resolution instruments such as Fourier Transform Infrared Spectrometer; Fourier Transform (100, 200 and 400 MHz) and Carbon-13 magnetic resonance spectrometers; and low and high resolution mass spectrometers are available to Raylo's research staff. Raylo also has access to and experience in using a low angle laser scattering photometer (KMX-6), particularly useful for determination of absolute molecular weight and molecular weight distribution polymers.

Raylo's plant equipment includes multi-purpose glass and stainless steel, jacketed, stirred reactors in the 10-600 gallon range and a broad selection of separation equipment.

Experience: The company has produced 77 patents and 35 publications. Raylo's clients are government, universities, and industry in the US, Canada, Europe and Japan.

Keywords: 4 = Chemistry; Chemical Processing = 4; Contract Research = 4; Custom Synthesis = 4; Physical Chemistry = 4; Polymer Chemistry = 4; Monomers = 4; Non-Routine Analysis = 4; Supercritical Gas Technology = 4; Process Development = 4; Product Characterization = 4; Research = 4; Research & Development = 4.

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RAYSHIELD Ltd

Code: RSL

Address: 2630 Royal Windsor Dr, Unit #4
Mississauga, Ontario, Canada L5J 1K7

Contact: Mr R E Webster, Sales Manager – (416) 822-6100

History: Rayshield is a wholly owned Canadian company incorporated in 1968 with no US subsidiaries.

Capability: Rayshield Ltd specializes in the construction of prefabricated RF shielded enclosures, and MIG welded rooms which are completely adaptable to all sizes and shapes of architectural spaces. The prefabricated system was developed to provide a quality-controlled technique for constructing shielding under adverse field conditions that would ensure a dependable performance. Manually operated doors require

a very minimum of effort and are available as single, double and custom units. "Hands-Off" or automatic powered door operators are also available. Performance is tailored to meet requirements. Complete installation and turnkey services including testing and certification are available. A complete line of accessories – vent panels, waveguide penetration, lighting, work benches, and connector panels are available. Power signal and communication line filters are available for all applications including tempest. Rayshield provides guaranteed performance installation, testing, and servicing. A line of RF shielded cabinets is also manufactured by Rayshield.

Average Work Force: Engineering – 4
Manufacturing – 15
Others – 5

Gross Sales: \$1.0-\$2.0M (Historical)
\$2.5M (Present)
\$3.0M (Forecast)

Plant Size: 10,000 sq ft

Equipment: Rayshield's Manufacturing Division is equipped with a laminating press to manufacture shielded panels, drill presses, cut-off saws, welders, and other equipment to enable them to manufacture all components of shielded enclosures. Test equipment includes generation and measurement from 20 Hz to 26 GHz.

Experience: Rayshield has been providing RF & EMP Shielding to major Governments and companies in North America, Europe and the Middle East for over fifteen years.

Keywords: 14 = Protective Equipment; 19 = Testing/Test Equipment; RF Shielding = 14; EMP Shielding = 14; Anechoic Chambers = 19; Shielded Cabinets & Wireways = 14; Shielding = 14.

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RMS INDUSTRIAL CONTROLS Inc

Code: RMS

Address: 1100 Lansdowne St
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Canada V3B 5E2

7538 Bath Road
Mississauga, Ontario, Canada L4T 1L2

Contact: Mr Harry Dunstan, President – (416) 673-1319 (Toronto)
Mr Peter Boorman, Vice President – (604) 464-2315 (Vancouver)

History: RMS Industrial Controls Inc was incorporated in 1976. The company has displayed steady growth in each succeeding year and has excelled in the field of specialized electronics engineering.

Capability: RMS particularly excels in the development of telemetry systems, using as transmission mediums both conventional wire and radio. They have developed their own series of unique radio modems to offer the user reliable and secure data radio communications. The company has developed and now manufactures its own unique direct synthesized UHF radio. This radio is rugged and capable of operating in harsh environments. The radio features unusual stability and has been designed to require minimal servicing.

RMS has also developed telemetry and control systems for use in offshore and undersea equipment. As much of this equipment is intended for use in critical conditions, emphasis has been placed on refinement and ruggedness of design. This equipment is used in the control of undersea vehicles and remotely operated manipulators.