

**COMPANY PROFILE**

Arboration Global Private Limited

Engineering Safety. Enabling Growth.

Process Safety and Engineering Service Provider for High Hazard Industries Worldwide

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About Arborion Global

Arborion Global Private Limited is a process safety and engineering service provider for high hazard industries worldwide. We help chemical, pharmaceutical, oil and gas, energy and allied manufacturers identify, assess and control the hazards in their processes so that they can operate safely, stay compliant and grow with confidence.

We combine deep technical knowledge with real plant experience. The same engineers who author a study or a design also understand what it takes to make the findings work on an operating site. That grounding runs through everything we deliver, from a hazard study to a full engineering package.

What We Do

Our services span the full risk and engineering lifecycle, grouped into five practice areas.

Industrial Risk Management

- Process Safety Management Systems, covering Risk Based Process Safety, OSHA PSM, Responsible Care and ISO 45001
- Hazard Studies and Risk Assessment, including HAZOP, HAZID, LOPA, QRA, FERA, Fire and Gas Mapping, Bow Tie and consequence modelling
- Chemical Safety Evaluation and Testing
- Emergency Response and Crisis Management

Engineering

- Process Safety Engineering, including relief and flare systems, hazardous area classification and alarm rationalisation
- Hazardous Process Technology and reaction hazard engineering
- Detailed Engineering Solutions across process, mechanical, electrical and instrumentation
- Functional Safety Engineering to IEC 61511 and IEC 61508
- Asset Integrity Management and Inherent Safer Design
- Fire Protection Engineering

Environment, Health and Safety

- Environmental Management, Occupational Health and Safety and Industrial Hygiene
- Product Stewardship and Sustainability and ESG

Business Excellence and Training

- Strategic Transformation and Operational Excellence

- Training and Competency Development

Our Expertise

Our team is multidisciplinary, built around chemical and process safety engineers who have spent their careers inside high hazard operations.

Reaction hazards and calorimetry

A genuine differentiator for us. We evaluate reactive and thermal hazards using DSC, ARC and reaction calorimetry, interpreting thermal runaway, gas evolution and incompatibility through development and scale up. Our experience covers demanding chemistry including nitration, hydrogenation, phosgenation, chlorination, cyanation, oxidation and other high energy routes, the kind where getting the thermal picture right is the difference between a controlled process and a runaway.

Process safety studies and functional safety

We lead and facilitate Process Hazard Analysis across HAZOP, HAZID, What If and checklist studies, carry that work through LOPA and SIL determination, and translate the findings into safety instrumented systems across the full functional safety lifecycle.

Process and detailed engineering

We deliver mass and energy balances, equipment sizing, pressure relief design to API 520, API 521 and API 2000, and full engineering packages, so a facility is supported from concept through safe operation.

Standards we work to

IEC 61882, IEC 61511, IEC 61508, API 520, API 521, API 2000, OSHA 29 CFR 1910.119, CCPS Risk Based Process Safety, ISO 45001, NFPA and the relevant national codes.

Industries We Serve

- Chemicals and Specialty Chemicals
- Pharmaceuticals and Active Pharmaceutical Ingredients
- Oil and Gas, upstream, midstream and downstream
- Petrochemicals and Refining
- Fertilizers and Agrochemicals
- Hydrogen and Energy Transition
- LNG and Cryogenic facilities
- Power and Utilities
- Mining and Metals
- Manufacturing and Industrial

Why Arborion Global

- Engineers with real plant experience, not just theory
- Deep reaction hazard and reactive chemistry capability for chemical, pharma and API work
- Work grounded in the codes and frameworks that regulators, insurers and licensors expect
- Small, senior teams accountable to measurable outcomes
- A commitment to sharing knowledge so your own people grow stronger

Contact Us

To discuss your facility and how we can help, please get in touch.

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