



Safety, Health, Environment & Risk Management

From the experts in safety & risk management

Independent Consulting Services

In-Company Training

Laboratory Testing

Laboratory Instrumentation

Wholly owned subsidiary of Chilworth Holdings UK

Independant Consulting Services



INDEPENDANT CONSULTING SERVICES

Chilworth began providing independent advice to industry on safety matters in 1986 from UK. Since then, the consulting team has grown to become a world leader in safety & risk management. Our advice is practical, impartial and given with the best interests of our clients in mind. Our independence is guaranteed.

Consulting Services :

I Risk Management

- Safety Audits, Occupational Safety and Health Audits / Services, Health / Safety and Environment Audits / Studies
- Risk Analysis / Assessment, Fire / Explosion Safety Audits / Investigations, HAZOP / HAZAN etc., Process Safety Consultancy / Chemical Process Optimisation, Incident / Accident Investigation, Electrical Safety Audits, Energy Audits, Environment Audits
- Hazardous Goods Handling Studies, Total Loss Control Programme, Emergency Management Plans
- All Risk & SHE Related Solutions

I Insurance Solutions

- Regulatory / Statutory Compliance Solutions : Risk Inspections / Ratings, PML Estimation, Loss Investigations

I Specialist hazard assessment work in such fields as

- Electrostatic hazards
- Hazardous area classification
- Dust explosion hazards
- Gas / vapour flammability

I Chemical reaction hazards

- Assessment of runaway potential
- Prevention & protection
- Vent sizing

I Generalised overview / benchmarking of risk / hazard assessment work

I General Regulatory compliance assessments

In-Company Training



IN-COMPANY TRAINING

Our in-Company courses are provided at three levels : for plant operators, for technical staff and Senior Management / Corporates. Courses are tailored to meet the needs of each client, be they involved in processes, storage, utilities or management etc.

Specialist in-house courses are provided for:

I Plant operators I Technical staff & Managers, I Senior Management / Corporates

I Areas Covered

- Course modules are available on all the areas related to SHE / OSHA and Risk Management on which consulting services are provided
- Material Management / Handling : Specific topics may also be covered like LPG handling, Ammonia handling, Chlorine handling etc., Warehouse Safety Programmes, On site and off site Emergency Handling, HAZOP in practice, Hazardous area classification, Dust explosion hazards: Prevention & protection, Electrostatic hazards: Assessment & control, Explosion hazards in handling flammable solvents & gases, Runaway Chemical Reactions : Assessment, prevention and control
- Transport related programmes like Fork Lift Training, Hazardous Goods Transportation, Defensive Driving, Transport Management

LABORATORY TESTING OF SUBSTANCES - COLLECTING SAFETY DATA

From our European and North Americas centres, Chilworth operates some of the most comprehensive process safety laboratories to be found anywhere in the world. Whether you require data for hazard assessment purposes or to comply with Indian / European Law, Chilworth will assist in obtaining it for you through our GLP compliant laboratories.

Explosion Hazards:

- | Dust Explosion Properties determination - many tests including
 - 20 litre sphere for Kst, St class, Pma, etc.
 - minimum ignition energy
 - limiting oxygen concentration
- | Solvent vapour and gas flammability properties
 - Flash point, flammable range, autoignition temperature

Thermal Stability:

- | Runaway Chemical Reactions - characterisation
 - Isothermal calorimetry
 - Adiabatic calorimetry for studying runaway reactions
 - Vent sizing calculations to required standards
 - Screening tests
 - Modelling
- | Self heating powders
 - Powder drying simulation tests, long term storage tests

Testing to meet Regulatory requirements:

- | A' series physico-chemical tests for Notification of New Substances
- | Classification, labelling and packaging tests
- | Tests for MSDS compilation
- | Testing of potential explosives for detonation

Electrostatic Properties:

- | Powder resistivity & charge relaxation time
- | Liquid conductivity, relative permittivity, chargeability
- | Ignition energy of powders, gases and solvent vapours

CHARP

- | Chilworth Hazard and Risk Profile

LABORATORY INSTRUMENTATION

Chilworth also manufacture a comprehensive range of specialist laboratory instruments for the determination of flammability, reactivity, electrostatic and other hazard properties of materials. Separate brochures available on request.

Laboratory Testing of Substances



Laboratory Instrumentation

Chilworth

India-Asia Region

Safety & Risk Management Services

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ABOUT THE CHILWORTH GROUP

Chilworth Technology began its operations in 1986 and has grown to become one of the world's leading organisations for the provision of safety services to industry. With bases in Europe, North America and Asia, Chilworth Group provides a truly global coverage but with a local presence in many regions of the world. Our Indian specialists, based in Mumbai & other places, provide a focal point of expertise in India/Asia through which our clients have access to the full range of expertise and state-of-the-art laboratory facilities which make up the Chilworth Group. Since the Chilworth expertise is spread across the globe, best available talent will be put to services keeping the patrons requirement as uppermost consideration.

Chilworth also provides services on long term tie up basis, where all the Safety / Risk Management / Training / Testing related issues can be addressed by Chilworth.



Chilworth Head Office, Southampton - UK

ABOUT OUR CLIENTS

Chilworth has many satisfied global clients from wide spectrum of sectors that include the Chemicals, Pharmaceuticals, Petrochemicals, Fertilizers, Textiles, Engineering, Buildings (hospitals, hotels, corporates) etc.

Unilever	Procter & Gamble
BASF	Honeywell
Roche	Kodak
Garware	Entec
Pfizer	Abbott
Glaxo SmithKline	Henkel
Blue Circle	Enviro Tech
Heinz	Polymer Latex
Sun Chemical	Bayer
Johnson & Johnson	Pilkington
GE	British Petroleum
Boots	CLP Power
Ranbaxy	Dorf Ketal
Rallis	Jubliant Organosys
Wyeth	Cipla

CONTACT

Experts are on hand at the following sites:-

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