

Intelligent Chemical Risk Solution: managing chemical risks

Intelligent ChemRS is a web based tool to support the assessment, prioritisation and control of chemical risks in the workplace. It calculates exposure levels and instantly shows the effects of control measures. This approach — exposure modelling instead of live air monitoring — makes your company fully chemical compliant in a cost effective way. The tool can be rapidly deployed throughout the company, whether at a single plant or companywide.

A well organised and structured chemicals management programme has become one of the key business issues as seen from recent developments: REACH has come into force within Europe demanding greater responsibility from industry both to manage the risks posed by chemicals and to provide information on safe handling. GHS regulation will enter the global market in 2009; a renewed system of classification, labelling and packaging of chemicals. Moreover sustainable sourcing and corporate social responsibility are business drivers to focus on minimising chemical risks within the company and in the supply chain. In what way can you meet these multiple demands? Intelligent ChemRS might be the answer for you.

What's in the name?

This tool, Intelligent ChemRS, brings together the knowledge of applying accurate scientific exposure models, using a flexible web based IT architecture and tailored experience within several industries in the last two years. That is why it's called: *intelligent!* The tool guides you to the main chemical risk issues in advance, instead of providing just an insight after live air monitoring. It offers you an instant overview of the current situation at the workplaces company wide, appropriate safe use instructions, actions to be taken and more. All this is available via a one stop shop, with no limits in time and place. Above all you are in full control on who should be authorised to access and use (elements of) the tool. That's why it's called: *solution!*

STATE OF THE ART CHEMICAL RISK MANAGEMENT

Intelligent ChemRS is based on modern exposure models. It was developed in the last two years from a client's point of view, not just as an IT tool. One of the core models, i.e. the Stoffenmanager algorithms, is globally recognised as a valid approach for quantitative exposure assessment. Subsequently, it has been internationally accepted under REACH and peer-reviewed by several renowned scientific journals.

BUILDING BLOCKS

- ▶ **ChemRS calculator:** calculating exposure levels for your operational conditions
- ▶ **ChemRS optimiser:** automatically find the right answer(s) to your priority risks
- ▶ **ChemRS exchange:** direct interfacing or XML based data exchange with EHS/ERP software
- ▶ **ChemRS reports:** generate views, risk reports and registers
- ▶ **ChemRS management dashboard:** company overview, key performance indicators and workflow control
- ▶ **ChemRS communicator:** collect exposure data and communicate safe use in the supply chain

More than just a calculator

Yes, one of the core functionalities is calculating exposure levels and comparing these with TLVs/DNELs, but it does lots more. For instance, you can be managing the data intensity, generating reports, supporting efficient communication between you and your colleagues or you and your clients/suppliers. Keeping track of your key performance indicators? No problem, Intelligent ChemRS will do this. Starting your monthly management meeting well prepared? No problem, Intelligent ChemRS will do this. Would you like to start with just the exposure assessment tools? No problem, our building blocks are activated on demand.

Software suite and pricing

Intelligent ChemRS is available as a *standard*, *professional* or *enterprise edition*. If needed, tailoring is also negotiable. Intelligent ChemRS uses a business model with a license fee and available additional services. The fee depends on the selected edition, number of plants and extra services. Please contact us for more details.

In practice

Intelligent ChemRS is already used in several industries and sectors such as: high performance specialty chemistry, coatings and materials, pharmaceuticals and R&D labs.

“Cost saving exposure and risk assessment for several workplaces at a producer of performance coatings for wear resistance, corrosion protection and decorative plating applications. Subsequently several control measures have been calculated with the ChemRS optimiser. An inventory was made of actual IT tools (MSDS, ERP) for data exchange with the ChemRS exchange module.”

“Risk assessment of several CMR substances by using ChemRS calculator. The outcome was the fundament for an approach to assess 30+ of similar substances and their operating conditions. Next to that, hundreds of other types of substances were evaluated. Client is a research center.”

Intelligent ChemRS in relation to...

- ▶ REACH: generating exposure scenarios, appendix for the Safety Data Sheet and communication with your suppliers or clients.
- ▶ Compliance: validated quantitative exposure assessment of chemicals risks in the workplace, structured up to date overview of used chemicals (EU chemical agents directive)
- ▶ Product Stewardship: corporate standardisation of exposure characteristics and safe use protocols
- ▶ Serving your client: communication of safe use

BECO and Arbo Unie can also offer

BECO Group is a member of Inogen[®] Environmental Alliance. BECO serves clients in Europe and Southern Africa with consultancy services on corporate responsibility, eco-efficiency, climate-strategy, (sustainable) energy and EHS Management. URL: <http://www.becogroup.eu/>

Arbo Unie is a Dutch Occupational Safety and Health Service. The Expert Centre for Chemical Risk Management is specialised in the development of tools for managing chemical risks in the workplace, services in chemical risk management, health monitoring and prevention of occupational risks. URL: <http://www.arbounie.nl>

Contact information

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