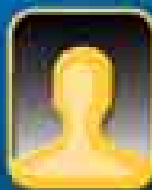


CHEM WATCH

AT KYNASTON



author(IT)e



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Have you the....

Author(IT)e

to

AUTHOR (M)SDS, Labels, TremCards and Product Safety Cards with the

AUTHORITY conveyed by more than 50,000 Rules

AUTHOR-matically produce documents, complying with all International Formats, in most major languages?

Links immediately (and seamlessly) to the world's largest database of independently researched substances (over 50,000) (Chemwatch*) and the most recent Legislation, Rules, Codes and Regulations of the EC, the Americas and Asia/ Pacific (Galleria Chemica*).

KEY FEATURES

Author(IT)e produces :

- Safety Data Sheets (SDS; MSDS)
- Labels
- Transport Documents including
 - Emergency Guides (ERGs, Trem Cards)
 - and
 - Dangerous Goods Declaration Forms for Air, Sea and Land

for any substance, mixture or preparation, in more than 20 languages, *in just minutes*

TESTED UNDER BATTLE-FIELD CONDITIONS

- **CHEMWATCH**, the developer of **Author(IT)e**, produces around 2000 MSDS, monthly, on behalf of more than 2000 corporate clients. These include several of the world's major producers of:

- Pharmaceuticals.
- Paints
- Inks
- Fine Chemicals
- Biologicals
- Fragrances and Flavors
- Agricultural Chemicals
- Explosives
- Welding Consumables
- Household Consumables
- Personal Care products
- Aerosol Products





- The **Author(IT)e** Phrase and mini-Monographs Library reflects the requirements of each of these manufacturing sectors
- **Author(IT)e** “distills” the experiences of over 15 years MSDS and Label production and the skills base of:
 - Toxicologists,
 - Safety Professionals
 - Emergency Responders and
 - Emergency Physicians.into a single package
- **Author(IT)e** is not simply another a package produced by a dispassionate software house but a “living, breathing” development, reflecting the combined experience of more than 50 professional (M)SDS and Label authors
- **Author(IT)e** is supported by a full-time team of over 30 IT professionals

AUTOMATED DETERMINATION OF: Risk and Safety Phrases

For both mixtures and pure substances

Conforms with the **Criteria Rules** of EC Council Directives 7/548/EEC and 88/379/EC and NOHSC 1008 (Australia)

Links automatically to **the Lists** of EC Council Directive 67/548/EEC Annex 1, EC Council Directive 96/54/EC, ASL (UK), NOHSC: 10005 (Australia)

Links to the data found in 50,000+ independently reviewed pure substance (M)SDS

Links to the computed parameters generated by QSAR analyses of 750,000+ 3D-molecules

Links to the world’s largest Toxic and Ecotoxic Endpoints Library

Dangerous Goods Codes

Proprietary algorithms determine Dangerous Goods Classification according to:

UN Model Regulations and Manual of Tests and Criteria, European ADR Annex A and B and the UK CDG

US DOT 49 CFR Regulations

IATA Dangerous Goods Regulations

IMDG Code

Chinese CN Codes

- Engineering Controls (including Face and Capture Velocities)
- Respirator Type
- Protective Clothing Type and
- Glove Type including materials of construction
- Explosibility of Powders

DATABASES AND SEARCH ENGINE

Author(IT)e is shipped with pure substance data extracted from Chemwatch, Galleria Chemica and The Collection.

- More than 5 million substances cited
- Search by Name
- Trade Name
- CAS Number
- Part Number
- Common Synonyms
- Substructure, SMILES searching

AUTOMATED PRODUCTION OF MSDS

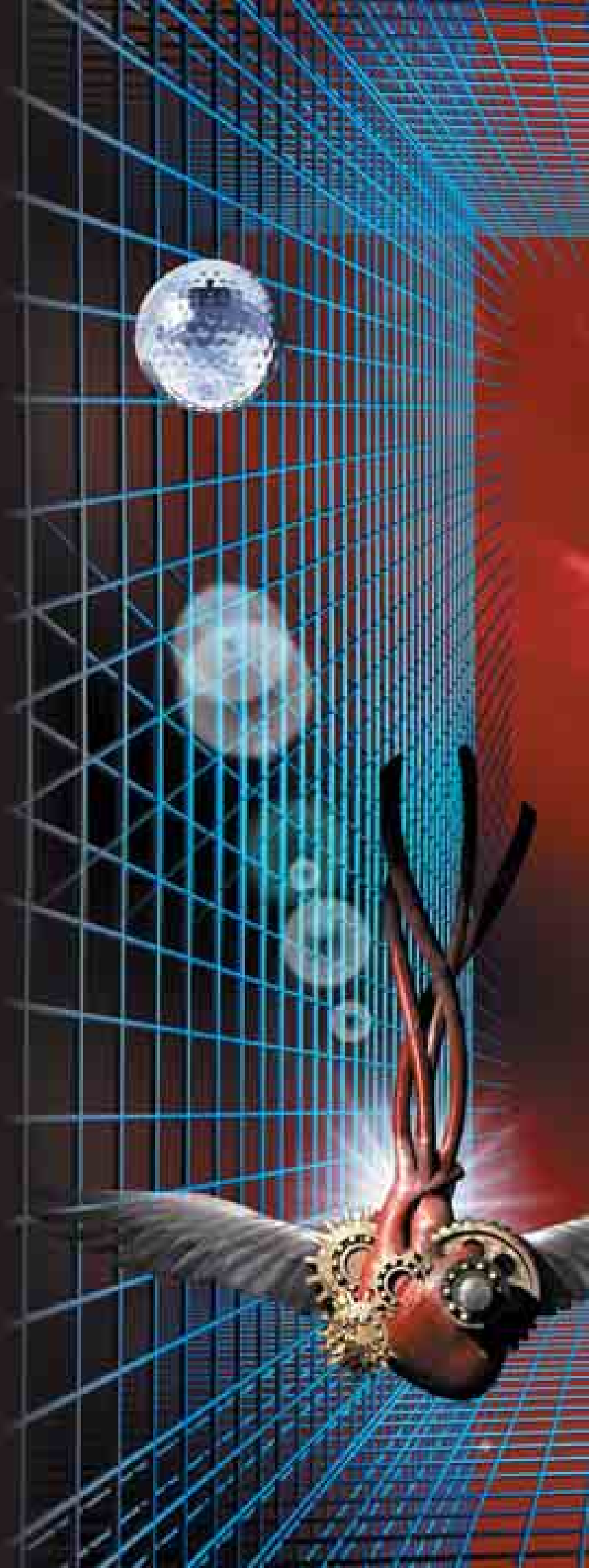
- Produce multi-component MSDS, in minutes
- MSDS are generated using more than 50,000 Rules, developed over 15 years.
Incorporates the Regulatory requirements of the European Directives, US ANSI, Canadian WHMIS and Australian NOHSC Classification Rules (and many more)
- All MSDS automatically updated to reflect changes in Regulation or User-defined changes in Rules – automatically updates audit log
- Allows Author-defined Rules to be added with easy-to-use Author(IT)e Code
- Allows data entry of free text in all fields (spell checking and syntax-correction available)
- UniCode support allows entry of Chinese, Japanese and Korean characters, and Hindi, Vietnamese, Thai, Arabic and Hebrew alphabets


Produces all major International (M)SDS formats

- EC...
- CHIP
- ANSI Z-400
- Australian
- Malaysian
- Chinese
- Indian

Audit Trail

- Retraces the history of an (M)SDS, enabling instant recreation of the MSDS for any given date
- e-Note-pad allows author(s) to record reason(s) for change
- Changes in EC Directives, which necessitate (M)SDS changes, automatically recorded





Create (M)SDS in all major File-types

- HTML
- PDF
- Text

Each (M)SDS available in three different "flavors" reflecting different "Scales of Use" including:

- Industrial
- Commercial
- Domestic

Each (M)SDS can be produced to meet the needs of different audiences

Formats includes:

- Highly technical documents with additional "editorial" comment
- Technical documents suited to the needs of Health and Safety Professionals
- Simplified documents for use in the workplace.

(M)SDS Phrase and mini-Monographs Library

Available in more than 20 languages.

Includes:

- Over 2500 pages of statements for each language
- Over 10,000 statements in each language
- Over 4000 mini-monographs
- Statements for all aspects of Health, Safety and Emergency Response
- Each statement available in two forms; technical and simple
- Advice to Doctor and First Aid procedures subject to regular review by a team of Emergency Physicians
- Environmental Fate and Ecotoxicity mini-monographs
- Exposure Standards mini-monographs – summaries of the Documentation of ACGIH (USA), MAK Committee (Germany), HSE (UK) and NOHSC (Australia)
- Key word searchable

The well-researched content of statements and mini-monographs ensures that your (M)SDS does not become just a big label

Limited or Minimum Disclosure

- Input full formulation into secure password controlled environment to determine appropriate R Statements
- Sanitize formulations to protect trade secrets
- Ensure that only substances which make the material hazardous/ dangerous are reported
- Retains original formulation, in hidden files, to ensure that re-application of Rules can be performed at any time

Customize Layout and Design

Many corporations have an existing preferred style for their (M)SDS

Chemwatch proprietary software

- allows design of individual styles;
- addition of graphics such as company logos and marks
- provides several "off-the-shelf" alternative designs

Once the design is selected, the software makes decisions about page breaks and section breaks ensuring that maximum flexibility is preserved: no need to use fixed-length fields or documents

Templates

- Use (M)SDS prepared and reviewed by the Chemwatch team as model documents.
- Large selection available for most industries including
 - Personal Care Products
 - Household Consumables
 - Welding Consumables
 - Pathogens
 - Radioactives
- More than 500 templates available

Multilingual Support

- Phrase and mini-Monographs Library and User interfaces available in more than 20 languages
- Supports major European, Asian, and some Indian and Middle Eastern languages
- UniCode support also available for Asian and Middle Eastern languages
- Chemical names, for inclusion in Ingredients Section, available in most European and Asian languages (for example 30,000 Chinese, 60,000 Japanese, 100,000 Lithuanian, 100,000 German names etc. etc.)

Links seamlessly to:

- EC Council Directives 67/548/EEC (Annex 1) and 96/54/EC and updates
- UN Model Regulations
- EC Council Directives 67/548/94/55/EEC and 96/49/EEC (Criteria) and updates
- RID/ ADR/ CDG
- IMDG Code
- IATA Regulation
- National Inventories
- The Exposure Standard Lists of most countries
- The world's largest Library of Toxic endpoints (both Mortality and Morbidity) and Ecotoxic Endpoints

No need to subscribe to other regulatory databases or data compendiums.

All linkage databases updated in real time, by email





MAPPING SERVICE

- Many chemical manufacturers/ suppliers have an extensive phrase library, of their own, for use in the production (M)SDS and Labels.
- This can be remapped, by our support team, and used in the generation of (M)SDS by Author(IT)e
- Corporate Rules sets may also be preserved within Author(IT)e using our proprietary rules-writing software. Consult the support team to determine the most cost-efficient solution.

MSDS DISTRIBUTION AND TRACKING

- Fax, e-mail lists or postal address lists may be created within the Author(IT)e environment
- (M)SDS Distribution Lists may also be produced, recording nominated products against nominated clients
- These then serve to drive our proprietary software and ensure that nominated clients receive (M)SDS of interest
- As updates are produced, these are distributed, automatically, to nominated clients, by fax, email or surface/ air mail.
- "Set the clock" so that your (M)SDS Collection, produced by Author(IT)e, is redistributed, after a predetermined period, automatically.

HOSTED DISTRIBUTION SYSTEMS

- Allow us to distribute your company (M)SDS
- The Author(IT)e Hosted Service employs a network of Servers located in the US, UK, Australia, Malaysia.
- This network provides load-balancing and fail-over security to provide maximum speed and reliability.
- Usage profiles and User Identity provided quarterly without additional charge.
- Can be linked to your Corporate home-page
- Cost-efficiencies guaranteed.

LABELS

- Automated Label Generation using User-defined templates.
- Proprietary software selects content, adjusts font size, allows import of graphics and much more
- Multi-language capability
Over 20 European and Asian languages
- Includes over 100 International Rule-sets
- Includes International and National Hazard Graphics
 - for Transport, Storage and
 - Dangerous/ Hazardous Substances

- Fully customizable – create Corporate templates
- Produces fully compliant UN, ADR, DOT, EC, NOHSC, CHIP labels
- Includes more than 100 designs for drum and bottle labels
- In-built Bar Code generation software for more than 10 Bar-Code formats – Code 39, EAN and UPC

Use off-the-shelf self-adhesive stationary with desktop printers.
Produces production-quality art for large-scale print runs

- Post your labels to the Internet

TREM CARDS

- Author(IT)e generates various forms of transport documentation as mandated or recommended by various International Agencies.
- Use our templates, or create your own, using our proprietary software.

EMERGENCY RESPONSE GUIDES (ERGs)

Generate ERGs from within the **Author.IT.e** environment

CHEMICAL (PRODUCT) SAFETY CARDS

- The International Program for Chemical Safety (IPCS) has formulated a set of Rules for the production of the International Chemical Safety Card.
- These Rules are generated by **Author(IT)e** and used to produce the document in the prescribed format.

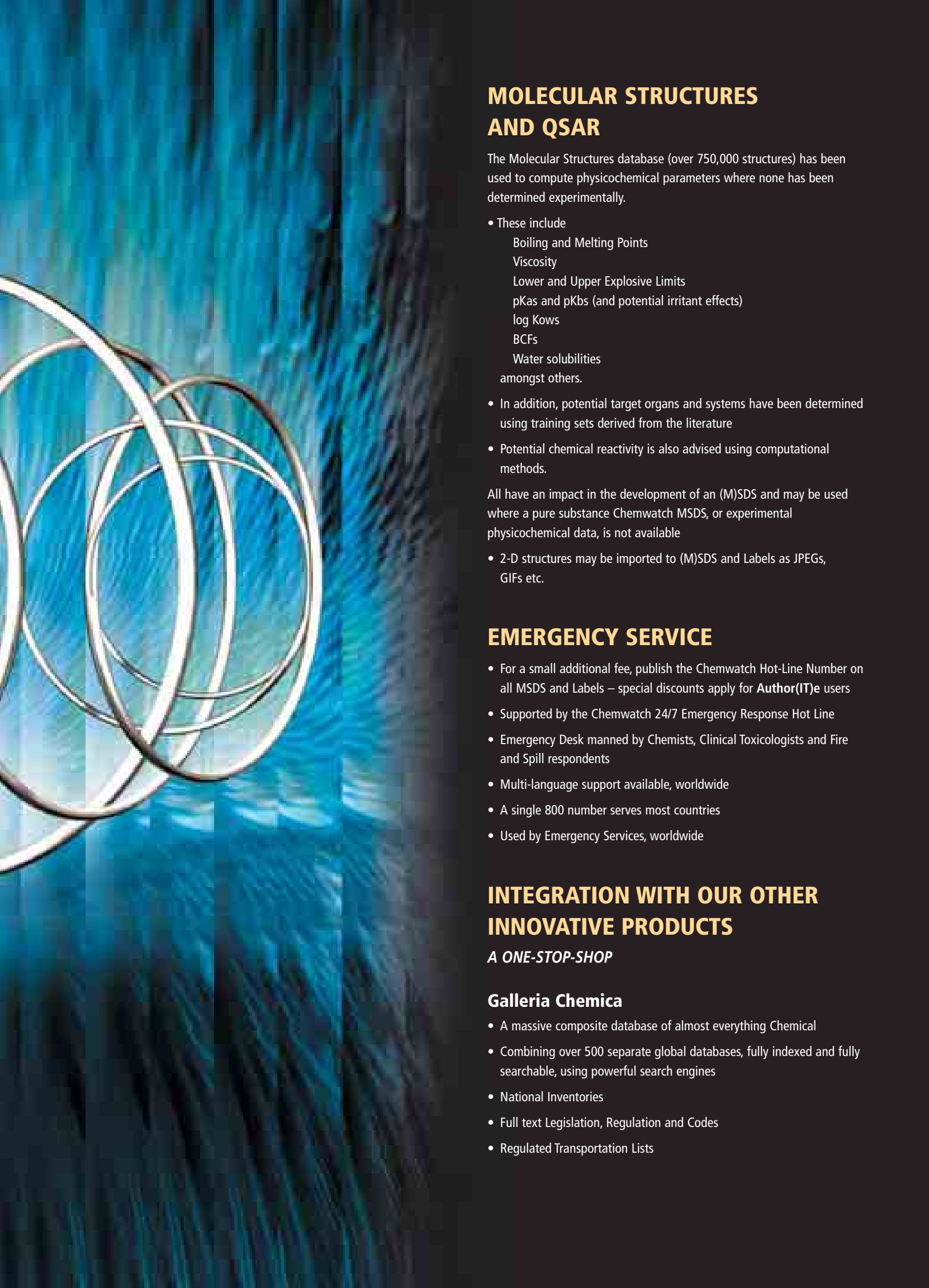
ONE-PAGE SUMMARIES

- All MSDS, produced by **Author(IT)e**, may be reproduced in one-page summary format
- More than 20 languages (including pidgins) are supported in this format.
- Used extensively in many corporate HazCom programs

CHEMICAL INCIDENTS ADVISORIES (ChInA)

- Many Fire Fighting and Emergency Responder Services, throughout the world, use this system to assist in management of potentially dangerous situations.
- The MSDS produced by **Author(IT)e** automatically generates the appropriate set of numbered ChInA Codes and may be used to produce suitable ChInA Documentation





MOLECULAR STRUCTURES AND QSAR

The Molecular Structures database (over 750,000 structures) has been used to compute physicochemical parameters where none has been determined experimentally.

- These include
 - Boiling and Melting Points
 - Viscosity
 - Lower and Upper Explosive Limits
 - pKas and pKbs (and potential irritant effects)
 - log Kows
 - BCFs
 - Water solubilitiesamongst others.
- In addition, potential target organs and systems have been determined using training sets derived from the literature
- Potential chemical reactivity is also advised using computational methods.

All have an impact in the development of an (M)SDS and may be used where a pure substance Chemwatch MSDS, or experimental physicochemical data, is not available

- 2-D structures may be imported to (M)SDS and Labels as JPEGs, GIFs etc.

EMERGENCY SERVICE

- For a small additional fee, publish the Chemwatch Hot-Line Number on all MSDS and Labels – special discounts apply for **Author(IT)e** users
- Supported by the Chemwatch 24/7 Emergency Response Hot Line
- Emergency Desk manned by Chemists, Clinical Toxicologists and Fire and Spill respondents
- Multi-language support available, worldwide
- A single 800 number serves most countries
- Used by Emergency Services, worldwide

INTEGRATION WITH OUR OTHER INNOVATIVE PRODUCTS

A ONE-STOP-SHOP

Galleria Chemica

- A massive composite database of almost everything Chemical
- Combining over 500 separate global databases, fully indexed and fully searchable, using powerful search engines
- National Inventories
- Full text Legislation, Regulation and Codes
- Regulated Transportation Lists

- National Exposure Standards
- World's largest Integrated database of Toxic and Ecotoxic End Points, and Environmental Fate data
- Huge database of physicochemical parameters

Visit www.galleriachemica.net

The Collection

- The world's largest Collection of Suppliers MSDS – more than 1 million datasheets available
- Manage your incoming MSDS
- Free Collection and Automatic Updating Service for incoming MSDS

Visit www.msdscollection.net

The Chemwatch Chemical Management System

- The world's largest collection of independently reviewed datasheets (more than 150,000)
- Inventory Tracking and Management
- Risk Assessment and Management
- Report Generation (including SARA, BOCA, New Jersey RTK)
- Environmental Modelling

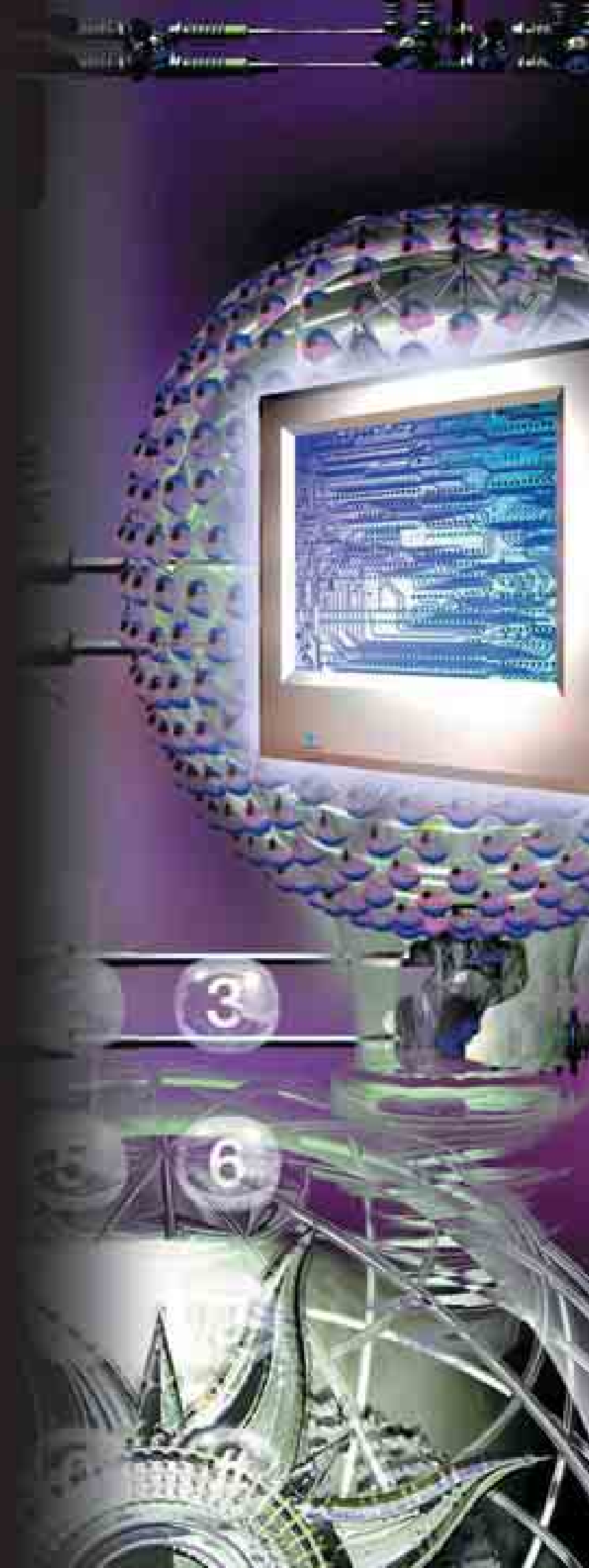
Visit www.chemwatch.net

TRAINING AND TECHNICAL SUPPORT

- Our team of technical support staff is located throughout the world and is available to assist in training aspects related to **Author(IT)e** or to general chemicals safety training.
- 24-hour, 7-day-per-week, technical assistance available
- On-line, interactive training facilities available

BULLETIN BOARD

- More than fifty pages of information, containing items of interest to the chemicals Health and Safety Professional or Regulatory Affairs Officer
 - delivered weekly by email.
- Our researchers review more the scientific literature weekly -more than 6000 titles. Information which impacts on the safe use of chemicals is recorded in real time
- Changes or intended changes to the International Regulation of Chemicals are reported as soon as it is made available by government agencies (from more than 50 countries)
- Regular Hazard Alerts



WHO ARE WE.....

The Chemwatch team includes Chemists, Toxicologists, Researchers, Trainers, Safety Specialists, IT Professionals and Translators located in Australia, Europe, USA and throughout Asia

Together we combine to:

- Research scientific literature
- Review the content of MSDS and Labels
- Write MSDS and Labels
- Collect country specific Codes and Regulations
- Produce software and databases
- Advise Governments and Industry

To learn more, contact us at:

Or Visit our Web site at

www.authorite.net

CHEM WATCH

AT RYNABTON

Innovations include:

GLOBAL

CHEMICAL



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