

CHEM WATCH

AT KYNASTON

A MASSIVE COMPOSITE DATABASE
of *almost anything* CHEMICAL



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molecules
to paste into
GALLERIA



CHEMICA

Combining over 500 separate global databases, fully indexed
and fully searchable, using powerful search engines



CITATIONS FOR OVER 5 MILLION CHEMICALS

- Fully referenced and current
All sources with relevant date of citation
- Our team around the world ensures that data and text is current

Combining over 500 separate global databases, fully indexed and fully searchable, using powerful search engines

Search by:

- Chemical name
- Synonym
- CAS number
- EC, TSCA, Korean, Japanese, Chinese, Australian Inventory, FEMA numbers and many more
- Substructure

GALLERIA

CHEMICA

Regulation, Legislation

- National inventories
 - The Americas – including TSCA, DSL/NDSL
 - Europe – including EINECS/ ELINCS
 - Pacific Rim – including AICS, Japanese, Filipino, Korean, Chinese, Taiwanese
 - Africa
- More than 20 lists
- Full text regulation, legislation, codes:
 - The Americas
 - Europe
 - Pacific Rim
 - Africa

In the original language, with many translated into English
- Key word searchable
- Monthly updates
- Regulatory summaries produced by our team of experts
- Regulatory lists of chemical toxins including:
 - Carcinogens
 - Reproductive Toxins
 - POPs
 - Sensitizers

- Transportation lists:
 - DOT TDG
 - RID/ ADR CAO
 - IATA IMDG
 - Chinese CN numbers
 - ERGs – English, Spanish and Chinese language versions
- Storage Codes – country and region-specific
- Occupational exposure standards – from more than 30 countries
- US federal and state regulatory lists including:
 - SARA CERCLA
 - Prop 65 RCRA
 - DOT CAA
 - CWA
- Prescribed biological exposure indices

Health Effects

- Target organs
Experimental and computed assessments for over 700 human organs and systems
- Toxicity end points
LD50; LC50 etc., for over 200,000 substances
Pictographic display
- Annex 1, 2 etc., lists from the EC – updated monthly
- Occupational exposure standards from around the world – more than 30 countries
- Biological exposure indices
- Carcinogens, mutagens
- Reproductive toxins including estrogen mimics
- Sensitizers
- Ecotoxins

Chemical Properties and Features

- Physical properties:
Melting, boiling points, vapour pressure, solubility, density, polarity, viscosity, critical temperatures and pressure and more (over 10 million citations)
- Thermodynamic values:
Enthalpies of formation/fusion/vaporization
Experimental and calculated values for more than one million substances
- Acid and base dissociation constants (pKa, pKb)
- Odor thresholds
- Spectrographic data (including NMR, IR, UV)
- Fire and explosion data:
Explosive limits – LEL/UEL
Flash points
Experimental and calculated values for more than one million substances
- Chemical incompatibilities – reported and calculated
- Synonyms – more than 10 million
- Chemical names in most European and Asian languages
– UniCode support included

Environmental Properties

- log Kow (Pow)
- BCF
- log Koc
- Hydrophilic Lipophilic Balance (HLB)
- Henry's Law Constants
- Environmental Fate
Experimental and computed values for
ozone depletion potential
Aqueous hydrolysis rates
Aerobic degradation rates
Photolysis rates
Soil adsorption
- Invertebrate, aquatic and avian toxicity
including life cycle values
- Microbial EC50s
- Oxygen demand
Including COD BOD, ThOD

Molecular Structures

- More than 750,000 3-D structures
- Available in SDFfile, Molfile, or 2-D formats for small molecules (for use in computational chemistry or to paste into reports and applications)
- Protein structures in Brookhaven format (35,000+)
- Mineral crystalline structures (thousands)
- Available molecular parameters include:
Molecular volume
Molecular surface area
Hydrogen bond donor/acceptor values
Water of hydration
- Substructure and SMILES search capabilities
- Distributed with drawing tools and VRML viewer – or use your preferred tools



Suppliers

- Names and contact details for over 25,000 suppliers
 - The Americas
 - Europe
 - Asia/ Pacific – includes special Chinese supplement of 9500 manufacturers
- Updated quarterly

Risk Assessment

Includes proprietary tool box to assess:

- R and S (Risk and Safety) statements for mixtures – according to EC Rules and Directives; Annex 1 (updated quarterly)
- CHIP compliant
- Toxic endpoints
- Environmental parameters (fate and ecotoxicity values)

Export Function

- All database elements and values export to other databases as user-defined delimited fields
- Proprietary reporting tool included
- SAP compatible

Alerts Service

Allows users to submit databases or data-points of interest to our servers. Ensures real time email alerts when changes occur.

Support and Training

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

Integration THE COLLECTION from ChemWatch

Link to:

- World's largest collection of suppliers' MSDS – THE COLLECTION – over one million datasheets
- and/or
- CHEMWATCH CHEMICALS MANAGEMENT SYSTEM for the world's largest collection of independently reviewed datasheets (more than 150,000)

Separate subscriptions required for these features

Visit www.Chemwatch.net or
www.MSDScollection.net for details

WEEKLY BULLETIN BOARD

- More than fifty pages of information, relevant to the chemicals health and safety professional, delivered weekly by email
- Our researchers review more than 6000 titles weekly in the scientific literature. 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 they are released by government agencies – from more than 50 countries
- Receive Hazard Alerts of interest to the safety professional

CHEM WATCH

A T K Y N A S T O N

24/7 EMERGENCY SERVICE HOT-LINE

- The Emergency Hot-Line is manned by chemists, occupational hygienists and emergency physicians
- Most countries can access a single phone number
- Support available in more than 50 languages including all major European and Asian languages and dialects (including several pidgins)

WORLD-WIDE Network of Servers

- GALLERIA CHEMICA is distributed from servers located in the US, Australia, the UK and Malaysia to ensure efficient and timely broad-band delivery
- Load-sharing between servers ensures little or no down-time due to server malfunction

Changes or intended changes
Chemical started as soon
agency more than 50

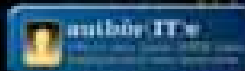


CHEM WATCH

AT KYNASTON

Innovations include:

GALLFORD
CHEMICAL



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