



Exclusive Chemical Profiles from CCOHS

Comprehensive, practical occupational health and safety information on chemicals

CHEMINFO™ from CCOHS – a trusted source for essential information on:

- Chemical Identification / Description
- Hazards Identification
- First Aid Measures
- Fire Fighting Measures
- Accidental Release Measures
- Handling and Storage
- Exposure Controls / Personal Protection
- Physical and Chemical Properties
- Stability and Reactivity
- Toxicological Information
- Disposal Considerations
- Transport Information
- Regulatory Information

Produced by CCOHS' occupational health and safety specialists, CHEMINFO is one of the most current and comprehensive occupational health and safety chemical information resources available online today.

CHEMINFO provides you with chemical health and safety information for more than 1,400 important workplace chemicals.



Chemical Profiles Available

For over 20 years thousands of organizations have used CHEMINFO to help meet their compliance needs for chemical information



CHEMINFO™ from CCOHS is the world renowned information source for:

Employees working with chemicals

Health and safety committee members

MSDS writers, users and evaluators

Product safety specialists

Industrial hygienists

Toxicologists

Firefighters and emergency responders

Occupational health nurses and physicians

*Every 2 minutes, 24 hours a day, 7 days a week someone is viewing a CHEMINFO record**

**Based on CCOHS' web usage statistics*

CHEMINFO can help you:

Conduct workplace hazard assessments

Prepare chemical-specific training tools for your hazard communication programs

Write MSDSs

Verify information in the MSDSs you use

Develop a complete chemical safety program for your workplace

Develop your chemical emergency preparedness plan – fire, first aid, spill

Locate hazard classifications for chemicals, including WHMIS, EU, and OSHA

Create personal protective equipment programs – chemical-specific respiratory protection and others

CHEMINFO, providing you with detailed profiles of more than 1,400 important workplace chemicals, and includes:

- › Health, fire and reactivity hazards and safe work practices
- › Easy-to-understand health effects summaries
- › Recommendations on handling and storage, personal protective equipment, accidental release, and first aid.
- › A **Revision Indicator** that flags new/updated information for fast, easy identification
- › Comprehensive bibliography of sources used



CHEMINFO is also available through CCOHS' Academic Support Program, a collection of important OSH databases, specially designed for colleges and universities, or other degree granting institutions. Contact CCOHS Client Services for details.

Available Exclusively From CCOHS

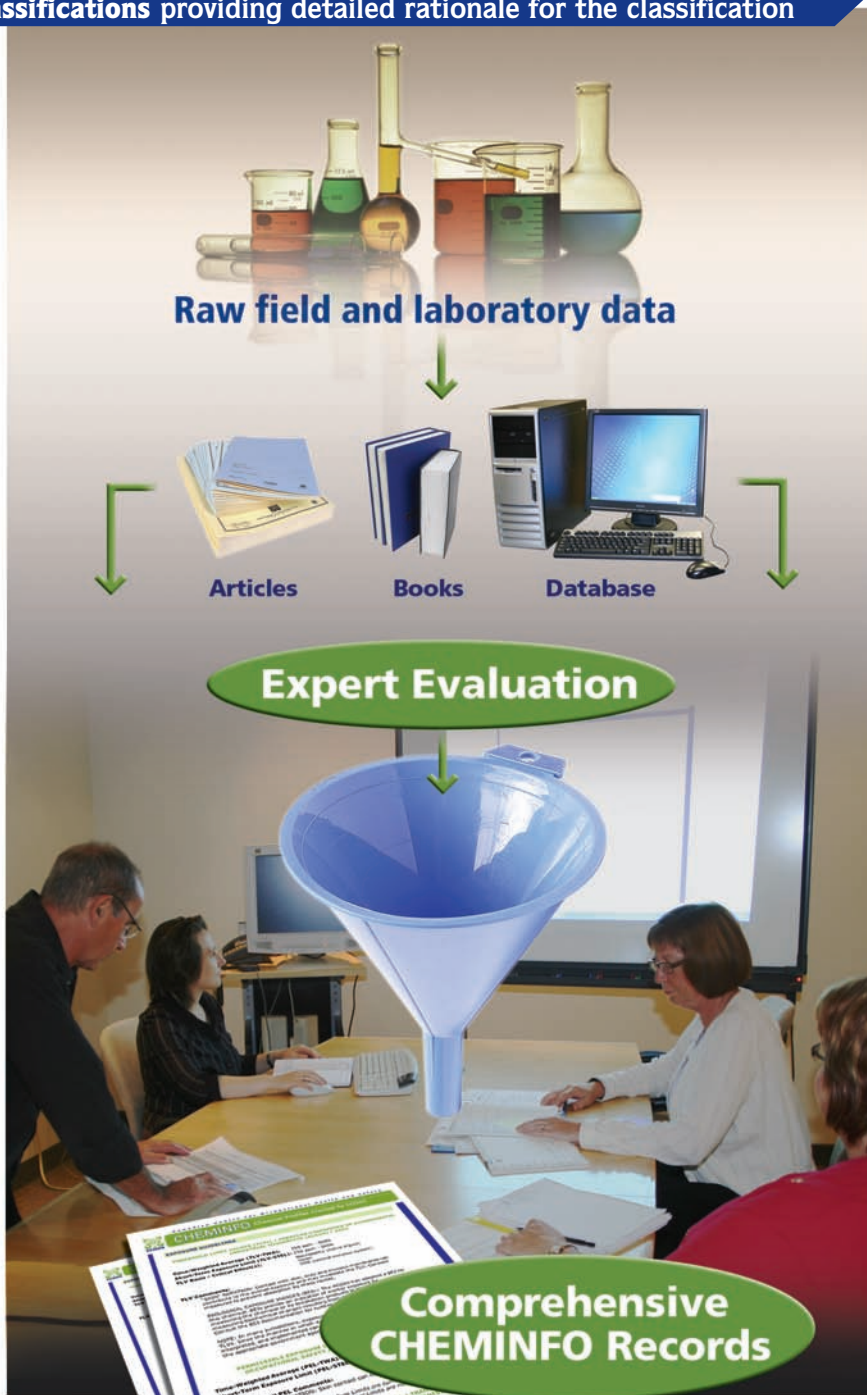
CHEMINFO, the **only source of WHMIS classifications** providing detailed rationale for the classification

CHEMINFO provides you with a comprehensive overview of chemical hazards and recommendations for protective measures. Starting with the published literature and using professional judgment, information is summarized and conclusions are presented in context of the real hazard. Extensive quality assurance reviews are done to ensure you have the most accurate, up-to-date information presented in an easy-to-read format.

CHEMINFO Coverage

Access the workplace health and safety information you need for:

- › High volume production industrial chemicals.
- › Commonly found ingredients in MSDSs.
- › Difficult-to-find members of important chemical families.
- › Carcinogens and potential carcinogens identified by IARC, ACGIH and NTP.
- › Chemicals from key exposure limit lists – TLVs, WEELs, ERPGs and PELs
- › Important environmental chemicals on CEPA Toxic Substances List, Pollution Prevention (P2) List and Environmental Emergency (E2) List



Free Trial Offer!

Arrange your **FREE TRIAL** today by contacting CCOHS Client Services at clientservices@ccohs.ca or **1-800-668-4284** (Canada or US) **1-905-570-8094** (International) or register on the web at www.ccohs.ca/products/ordering/freetrial



What our clients are saying

"I cannot express how much comfort it gives me and others to know that an information source we rely on is really and truly reviewing the literature, including original data, to the greatest extent possible."

DEBORAH SMITH
Industrial Hygiene Consultant

CCOHS – a trusted source

The Canadian Centre for Occupational Health and Safety (CCOHS) is a national non-profit organization that collects, evaluates and distributes information on workplace health, safety and the environment from sources around the world. Recognized internationally as an innovative and expert resource, CCOHS is governed by a Council with representatives from employers, labour and government, and as such is committed to providing impartial and accurate information to all its clients.

CCOHS represents Canada for the International Labour Organisation's CIS National Centre Program, and is a World Health Organization (WHO) Collaborating Centre.



SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Colourless, odourless gas. Commercial grade may have odourant added (see supplier MSDS). EXTREMELY FLAMMABLE GAS. COMPRESSED GAS or LIQUEFIED GAS. Gas is heavier than air and may spread long distances and will accumulate at low points (e.g. open or closed drain). Distant ignition and flashback are possible. Can accumulate in confined spaces, resulting in a fire and toxicity hazard. Essentially non-toxic at low concentrations. Asphyxiant. At high concentrations, gas may reduce oxygen available for breathing. Mild central nervous system depressant. High vapour concentrations may cause headache, nausea, dizziness, drowsiness, incoordination, and unconsciousness. Rapid evaporation of liquefied gas from cylinder may cause cold burns or frostbite.

POTENTIAL HEALTH EFFECTS

Effects of Short-Term (Acute) Exposure

Inhalation:

At low concentrations, propane is essentially non-toxic. At high concentrations, propane can cause depression of the central nervous system (CNS) with symptoms such as headache, nausea, dizziness, drowsiness and confusion, based on animal information. It is expected to cause unconsciousness (narcosis) due to CNS depression at approximately 47000 ppm (4.7%).(22) (It is important to note that propane is extremely flammable (lower explosive limit: 2.1%)). No health effects were observed in 8 volunteers who inhaled 250, 500 or 1000 ppm propane for 1 minute to 8 hours. Exposure to 1000 ppm (10000 ppm) for 8 hr/d; 4-5 d/wk also produced no harmful effects.(21) In a study, exposure of volunteers to 1% (10000 ppm) for 10 minutes produced slight dizziness (vertigo).(3) Propane gas concentrations can become so high that oxygen is displaced, especially in confined spaces. Life-threatening asphyxiation (suffocation) may result. The available information indicates that 11% or harmful effects will result from exposure to 11% or greater for 10 minutes at 14% or greater.

A portion of the Propane profile from the CHEMINFO database

Available via Web or Intranet
Multi-user Licenses Available

Contact CCOHS Client Services for details.

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Related Information Sources also available from CCOHS

CHEMpendium™ An essential chemical safety database collection for workplaces and the environment, featuring CHEMINFO.

RTECS® The Registry of Toxic Effects of Chemical Substances (RTECS) from NIOSH provides critical toxicological information with citations on more than 140,000 chemical substances.

IPCS INCHEM Authoritative collection of chemical safety publications and database records from the world's top international bodies concerned with sound management of chemicals.

Canadian enviroOSH Legislation Complete text of all Canadian health, safety and environmental legislation, critical guidelines and codes of practice. Available in *National, Regional and plus Standards* editions.