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RightAnswer® Knowledge Solutions OnLine™ System / OnHand™ Mobile Application ChemKnowledge® and RegsKnowledge® Data Source Descriptions

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▲ ChemKnowledge® System: Description of Products & Databases

The **RightAnswer® ChemKnowledge® Solution** System includes the **TOMES Plus® System**, and **ReproCollection™ System**, as well as the ChemCollection™ System and (M)SDS Collection™ System. These systems are a computerized library of proprietary and government databases, providing rapid, easy-access to chemical, hazard, environmental, and medical information needed for safe management of chemicals. These systems are composed of proprietary databases owned by RightAnswer.com, Inc., databases licensed from other third parties, and publicly- available data.

The **TOMES Plus® System** comprises the proprietary and licensed databases listed below. (Some TOMES Plus subscriptions may not contain all of the listed databases.)

- **MEDITEXT®** Medical Management Database – contains information to assist in evaluating and treating acute exposures to industrial chemicals and reporting adverse health effects and treatment for chemical release exposures. © 2020 International Business Machines Corporation. All rights reserved.
- **HAZARDTEXT™** Hazard Management Database – provides information needed for the initial response to incidents such as spills, leaks, fires, or explosions involving hazardous materials. Safe handling of industrial chemicals and specific guidelines for evacuation, personal protection, and disposal are discussed. All traditional emergency response sources are referenced, including the American Association of Railroads, National Fire Protection Association, Department of Transportation (DOT), Environmental Protection Agency (EPA), and Occupational Safety & Health Administration (OSHA). © 2020 International Business Machines Corporation. All rights reserved.
- **INFOTEXT®** Database for Regulations, Standards & General Information – offers general health and safety data on nonchemical-specific topics such as ergonomics and human health risk assessments. © 2020 International Business Machines Corporation. All rights reserved.
- **CHRIS** (Chemical Hazard Response Information System) – from the U.S. Coast Guard presents information useful for initial response to aquatic incidents involving hazardous materials. It addresses the properties, isolation, reactivity, and hazard classification of approximately 1,300 chemicals, and discusses evacuation procedures and personal protection recommendations. The CHRIS database was first developed by the United States Coast Guard in 1985. Basic first aid information may be found in this database.
- **1st Medical Response® Protocols** – offer concise documents describing basic and advanced life support measures for use by emergency and occupational health and safety personnel. The information is especially valuable when developing training programs and establishing first aid and initial response procedures for workplace accidents. It also covers various life-threatening situations not necessarily related to chemical exposure (e.g., amputation, burns, electrocution, sudden illness, and more). © 2020 International Business Machines Corporation. All rights reserved.
- **HSDB®** Hazardous Substance Data Bank –addresses the impact of more than 4,500 hazardous chemical substances on health and the environment. Specific data on environmental fate, animal studies, chemical handling and manufacturer is presented. Some materials in this database are from copyrighted publications of the respective copyright claimants. Users of this database shall be solely responsible for complying with any copyright restrictions and are referred to the publication data appearing in the HSDB® records as well as to the copyright notices appearing in the referenced publications. The National Library of Medicine (NLM) has used reasonable care in formatting the HSDB® data bank, but neither the NLM nor RightAnswer.com

makes any warranties or representations regarding the accuracy of the HSDB[®] data bank or that the HSDB[®] data bank is error-free.

- **New Jersey Fact Sheets** – from the New Jersey Department of Health (U.S.) offers employee-oriented exposure risk information useful when addressing worker right-to-know issues and developing training programs. Includes generic, non-technical worker safety and training information, frequently asked questions and answers, and a glossary of terms for more than 700 hazardous substances. The New Jersey Fact Sheets hazardous substance fact sheets were developed by the Right to Know Program of the New Jersey Department of Health.
- **NIOSH Pocket Guide** – contains critical industrial hygiene data for approximately 675 chemicals with information on exposure limits, U.S. IDLH (Immediately Dangerous to Life & Health) concentrations, incompatibilities and reactivities, personal protection, and recommendations for respirator selections. The NIOSH Pocket Guide was compiled by the National Institute for Occupational Safety and Health of the U.S. Department of Health and Human Services of the United States of America.
- **Emergency Response Guidebook** (formerly DOT Emergency Response Guides) – from the U.S. Department of Transportation, Transport Canada, and the Secretariat of Communications and Transportation of Mexico. The Guidebook contains information necessary to identify a substance, isolate and contain it, and evacuate an area in cases of hazardous incidents including fires, spills, and explosions.
- **OHM/TADS** (Oil and Hazardous Materials/Technical Assistance Data System) – from the U.S. EPA discusses the effects to the environment of petroleum products and other hazardous materials. Specific information on clean-up procedures, aquatic toxicity, storage and handling, and the effects of hydrocarbons on different plants and animal species is included. The database was developed by the Office of Water and Waste Management of the United States Environmental Protection Agency in 1985 and has not been revised or updated since that time.
- **RTECS[®]** Registry of Toxic Effects of Chemical Substances – offers toxicity data on approximately 170,000 substances. Extracted from scientific literature worldwide, the information presented includes specifics on mutagenicity, carcinogenicity, reproductive hazards, and acute and chronic toxicity of hazardous substances. RTECS[®] is a United States trademark owned and licensed under authority of the U.S. Government, by and through BIOVIA, Inc. © Copyright 1993-2020, U.S. Government. All Rights Reserved. Toxicity data have not been evaluated. Omission of a substance does not imply relief from regulatory responsibility.
- **ECOTOX** (ECOTOXICOLOGY) – database is created and is maintained by the U.S.EPA, Office of Research and Development (ORD), and the National Health and Environmental Effects Research Laboratory's (NHEERL's) Mid-Continent Ecology Division (MED). ECOTOX includes toxicity data derived predominately from the peer-reviewed literature and is a source for locating single chemical toxicity data for aquatic life, terrestrial plants and wildlife. You should review the limitations of ECOTOX data retrieval and system requirements prior to performing searches on this site.
- **ToxRes** (Toxicology Residue) – database is a comprehensive toxicity/tissue residue database for aquatic organisms exposed to inorganic and organic chemicals. This database is an invaluable resource for use in the systematic investigation of hypotheses related to effect/residue relationships. ToxRes is created and maintained by the U.S.EPA.
- **GENE-TOX** is a toxicology data file of the National Library of Medicine's (NLM) Toxicology Data Network (TOXNET[®]). It is created by the U.S. Environmental Protection Agency (EPA) and contains genetic toxicology (mutagenicity) test data, resulting from expert peer review of the open scientific literature, on over 3,000 chemicals.
- **CCRIS** is a toxicology data file of the National Library of Medicine's (NLM) Toxicology Data Network (TOXNET[®]). It is a scientifically evaluated and fully referenced data bank, developed and maintained by the National Cancer Institute (NCI). It contains over 9,000 chemical records with carcinogenicity, mutagenicity, tumor promotion, and tumor inhibition test results. Data are derived from studies cited in primary journals, current awareness tools, NCI reports, and other special sources. Test results have been reviewed by experts in carcinogenesis and mutagenesis.

The **ReproCollection™** System reproductive toxicology databases.

- **REPROTEXT[®]** Reproductive Hazard Information Database – contains information on the acute and chronic clinical, carcinogenic, genetic, and reproductive effects of chemicals and physical agents. Each chemical has a dual hazard rating, one for general toxicity and another for reproductive hazard. All ratings are guidelines, not rigid rules. Certain individuals may be more or less sensitive to any chemical or may react in

ways not previously known. No warranty or representation is made that all known health effects have been identified for any substance. ©2020 International Business Machines Corporation. All rights reserved.

- **TERIS (Teratogen Information System)** – database was developed by the University of Washington. ©2020. University of Washington. All Rights Reserved.
- **Shepard's Catalog of Teratogenic Agents** – developed by Dr. Thomas H. Shepard and co-authored by Janine E. Polifka, Ph.D. ©1990-2020. The Johns Hopkins University Press. All rights reserved.
- **REPROTOX® Reproductive Hazard Information Database** – developed by Drs. Sergio Fabro and Anthony R. Scialli of the Reproductive Toxicology Center, Columbia Hospital for Women, Washington D.C.
- **National Toxicology Program** databases – the NTP is an interagency program whose mission is to evaluate agents of public health concern by developing and applying tools of modern toxicology and molecular biology. The program maintains an objective, science-based approach in dealing with critical issues in toxicology and is committed to using the best science available to prioritize, design, conduct, and interpret its studies. NTP databases include:
 - Developmental Studies – Abstracts for studies of chemicals tested in pregnant animals such as mice, rats, or rabbits for their potential to cause malformations and signs of toxicity during fetal development.
 - Reproductive Toxicology Studies – Abstracts for studies evaluating the potential toxic effects of exposure to environmental and occupational substances on the reproductive system.
 - Short-Term Reproductive and Developmental Toxicity Studies of Water Disinfection By-Products – Abstracts for studies designed to identify the physiologic systems (developmental; female reproduction; male reproduction; various somatic organ/processes) that are the most sensitive to exposure from these agents.
- **Developmental and Reproductive Toxicology Database (DART)** – references to developmental and reproductive toxicology literature.

(M)SDS Collection™ includes resources and tools including quick, easy access to a vendor-rich collection of (Material) Safety Data Sheets ((M)SDS) for thousands of chemicals currently used in the workplace. More than 4,000,000 (M)SDSs with new and revised (M)SDSs added continually. The (M)SDS Collection™ includes:

- **(M)SDS Access™** supported by MSDSONline® © 1998-2020 MSDSONline. All rights reserved.
- **Fisher/ACROS MSDS** Collection internationally recognized collection includes 18,000 (M)SDSs for neat chemicals presented in the 16-section ANSI standard format, and can be searched by chemical name, CAS number, and EINECS. Fisher/ACROS MSDS are available in English, French, German, Italian, and Spanish. © 1998-2020. Fisher Scientific Company.
- **MSDS Management** supported by MSDSONline® and other RightAnswer® solutions.

ChemCollection™ System:

- **National Toxicology Program** databases – the NTP is an interagency program whose mission is to evaluate agents of public health concern by developing and applying tools of modern toxicology and molecular biology. The program maintains an objective, science-based approach in dealing with critical issues in toxicology and is committed to using the best science available to prioritize, design, conduct, and interpret its studies. NTP databases include:
 - Long-Term Toxicology and Carcinogenesis Studies – Studies designed and conducted to characterize and evaluate the toxicologic potential, including carcinogenic activity, of selected chemicals in laboratory animals (usually two species, rats and mice).
 - Short-Term Studies – Studies designed and conducted to characterize and evaluate the toxicologic potential, including carcinogenic activity, of selected chemicals in laboratory animals (usually two species, rats and mice).
 - Genetically Modified Model Studies – NTP model systems for toxicology and carcinogenesis studies, especially those that can provide mechanistic information relative to understanding an agent's mode of action. The use of genetically modified models holds promise for improving both the accuracy and efficacy of experimental assessment of the carcinogenic potential of chemicals.
 - Immunology Toxicology – Abstracts for studies of altered hematopoietic (blood cell development) or immunologic events associated with exposure of humans and animals to chemicals and studies of immune-mediated hypersensitivity (allergy and autoimmunity) resulting from exposure to environmental chemicals or therapeutics.



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- AIDS Therapeutics Toxicity Studies Program – Reports evaluating the reproductive/ developmental toxicity, general toxicity, immunotoxicity and neurotoxicity of AIDS therapeutics. These evaluations may include single therapeutic agents or combination therapies when the toxic potential of these agents in animal models is not available or is incomplete.
- **NIOSH Antineoplastic Drugs** – created and maintained by the National Institute for Occupational Safety and Health (NIOSH) of the Centers for Disease Control and Prevention (CDC), NIOSH Alert: Preventing Occupational Exposure to Antineoplastic and Other Hazardous Drugs in Health Care Settings recommends standard precautions or universal precautions to be taken in handling hazardous drugs.
- **All other databases not listed here individually** are provided as external links and in separate frames solely as a service to our subscribers and RightAnswer neither owns nor is responsible for any of the content located at the external third party websites.

▲ **RegsKnowledge[®] System: Description of Products & Data Sources**

The **RegsKnowledge[®] System** from RightAnswer.com, Inc. includes the LOLI[®] System and the RegsLink[®] System.

LOLI[®] System: The Regulated Chemicals List of Lists from ChemADVISOR, Inc.

- LOLI[®] The Regulated Chemicals List of Lists from ChemADVISOR, Inc. contains chemical listings from U.S. federal regulations, international sources, and related programs and standards, including: TSCA; SARA; CERCLA; OSHA; ACGIH; AIHA; IARC; BATF; Coast Guard; NIOSH; NTP; RCRA; Clean Air Act; Clean Water Act; DEA; DOT; and the Commerce Department.
 - The LOLI[®] System provides information from over 50 countries, including: Egypt; China; India; Japan; South Africa; Hong Kong; Israel; Most EU and non-EU countries. Also includes domestic data from Canadian provinces and U.S. states, physical/chemical properties, and LD50 and EC50 values.
 - The LOLI[®] System also includes the former LOLI Global Inventories[™] system which contains the following international inventory lists: Australian Inventory; Canada Domestic Substance List; Canada Non-domestic Substances List; China Inventory; European Inventory of Existing Commercial Chemical Substances EINECS); European List of Notified Chemical Substances Inventory (ELINCS); Japan-Existing & New Chemicals and Substances (ENCS); Korea-Existing & Evaluated Chemical Substances Inventory (ECL); Philippines Inventory; U.S. TSCA Inventory; and United Kingdom-The Red List - Dangerous Substances in Water.

RegsLink[®] System

- The RegsLink[®] System provides immediate access to extensive U.S. state and federal regulatory information, including daily updates to the Federal Register. The RegsLink[®] System also includes Code of Federal Regulations and environmental and safety regulations for all 50 states, the District of Columbia and Puerto Rico.



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▲ **Warranty & Disclaimer**

RightAnswer.com, Inc. warrants that the data contained in these databases have been obtained from what it believes are reliable sources. However, the databases are intended for use only by competent environmental, health and safety professionals and should be utilized in conjunction with pertinent clinical or situational data. As between you and RightAnswer, you assume full responsibility for ensuring the appropriate use and reliance upon the information and you agree to indemnify RightAnswer and third-party licensors for any and all claims or damages. Except as set forth above, RightAnswer provides each of the databases

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