

# Neurobehavioral Deficits in Solvent-Exposed Painters

**TABLE II.** Comparison of Painters and Sheetmetal Workers on NEB Measures, Adjusting for Age, Alcohol Consumption, and Smoking

| Neurobehavioral measures          | Painters |      | Sheetmetal workers |      | Univariate F       | Stepdown F         |
|-----------------------------------|----------|------|--------------------|------|--------------------|--------------------|
|                                   | M(A)     | SD   | M(A)               | SD   |                    |                    |
| Reaction time                     |          |      |                    |      |                    |                    |
| Mean (msec)                       | 254.6    | 35.9 | 251.7              | 62.2 | 0.10               | 0.03               |
| SD (msec)                         | 45.9     | 18.7 | 43.5               | 43.6 | 0.18               | 0.26               |
| Symbol-digit learning             |          |      |                    |      |                    |                    |
| Mean response latency (sec)       | 2.6      | 0.5  | 2.5                | 0.5  | 0.09               | 0.68               |
| Accuracy (no. incorrect)          | 5.7      | 1.8  | 4.3                | 2.3  | 12.54 <sup>b</sup> | 12.20 <sup>b</sup> |
| Digit span                        |          |      |                    |      |                    |                    |
| Forward (no. of digits)           | 5.8      | 1.4  | 5.7                | 1.1  | 0.02               | 0.02               |
| Backward (no. of digits)          | 4.7      | 1.6  | 4.8                | 1.3  | 0.14               | 0.01               |
| Pattern memory                    |          |      |                    |      |                    |                    |
| Correct response latency (sec)    | 6.9      | 1.7  | 7.5                | 2.3  | 2.58               | 0.27               |
| Incorrect response latency (sec)  | 8.6      | 3.0  | 10.4               | 4.1  | 6.80 <sup>a</sup>  | 3.17               |
| Accuracy (no. correct)            | 11.8     | 1.6  | 11.7               | 1.8  | 0.28               | 0.04               |
| Vocabulary (no. correct)          | 14.3     | 7.1  | 17.1               | 4.8  | 4.44 <sup>b</sup>  | 4.44 <sup>b</sup>  |
| Negative affect (sum of 5 scales) | 10.7     | 3.0  | 10.6               | 2.6  | 0.03               | 0.04               |

M(A) is the adjusted mean, controlling for the effects of age, alcohol consumption, and smoking. Univariate F tests were conducted on the adjusted means of painters and sheetmetal workers. Stepdown F tests compare painters and sheetmetal workers using dependent variables, which have been previously tested, as covariates (see text for additional details). N = 184 (123 painters and 61 sheetmetal workers).

<sup>a</sup>p < 0.05.

<sup>b</sup>p < 0.01.

Grosch et al., Am J Indust Med, 30:623-632 (1996)

Long-term chronic or acute high dose exposure can produce cognitive and behavioral changes (White and Proctor, 1997)

# Long Term Neurotoxic Effects Of Paint Solvents

**James S. Brown**



## **Long Term Neurotoxic Effects Of Paint Solvents:**

*Long-term Neurotoxic Effects of Paint Solvents* Royal Society of Chemistry, 1990 In this report the various components of oil based decorative paints are described as are studies that have been made on the neurotoxicity of the individual solvents

**Solvent Neurotoxicity** Peter Arlien-Soborg, 1991-12-18 Solvent Neurotoxicity presents a comprehensive summary of the latest information available regarding acute and chronic neurotoxicity of a number of solvents Ten solvents Chloromethane Dichloromethane N Hexane Methyl Ethyl Ketone Methyl N Butyl Ketone Styrene Toluene 1 1 1 Trichloroethane Trichloroethylene and Xylene and two mixtures of solvents White Spirit Mixed solvent exposure have been selected based on their widespread use as well as the mounting evidence from research concerning the neurotoxicity of these particular solvents Evidence is presented from animal and human experiments clinical observations and epidemiological studies The various methods used to establish a neurological diagnosis are described as well and the advantages and disadvantages of these methods are discussed Researchers involved in solvent neurotoxicological studies occupational hygiene specialists epidemiologists and trade unions and industries whose members and employees work with organic solvents will find this book to be essential in determining methods for preventing chronic toxic neuropathy encephalopathy and other solvent related disorders

**Encyclopedia of Cancer and Society** Graham A. Colditz, 2007-09-12 This encyclopedia will define the issues that surround cancer and its effects on society *Health Effects of Selected Chemicals* Nordic Council of Ministers, 1999-09 Natural Products Desk Reference John Buckingham, Caroline M. Cooper, Rupert Purchase, 2015-11-18

Written by a group of experts affiliated with the prestigious Dictionary of Natural Products this book provides a concise overview of the key structural types of natural products and their interrelationship A structurally diverse group ranging from simple aliphatic carbon chains to high molecular weight proteins natural products can usually be classified into one or more groups The text describes these major types including flavonoids carbohydrates terpenoids polyketides and lipids and it illustrates them with accurate chemical structures demonstrating the biosynthetic relationships between groups The book also covers nomenclature stereochemistry and ring numbering Organic Chemist's Desk Reference Caroline Cooper, Rupert Purchase, 2017-08-04 Launched in 1995 as a companion to the Dictionary of Organic Compounds the Organic Chemist's Desk Reference has been essential reading for laboratory chemists who need a succinct guide to the nuts and bolts of organic chemistry the literature nomenclature stereochemistry spectroscopy hazard information and laboratory data This third edition reflects changes in the dissemination of chemical information revisions to chemical nomenclature and the adoption of new techniques in NMR spectroscopy which have taken place since publication of the last edition in 2011 Organic chemistry embraces many other disciplines from material sciences to molecular biology whose practitioners will benefit from the comprehensive but concise information brought together in this book Extensively revised and updated this new edition contains the very latest data that chemists need access to for experimentation and research **Behavioral**

**Measures of Neurotoxicity** National Research Council, Division of Behavioral and Social Sciences and Education, Commission on Behavioral and Social Sciences and Education, U.S. National Committee for the International Union of Psychological Science, 1990-02-01 Exposure to toxic chemicals in the workplace and at home is increasing every day Human behavior can be affected by such exposure and can give important clues that a person or population is in danger If we can understand the mechanisms of these changes we can develop better ways of testing for toxic chemical exposure and most important better prevention programs This volume explores the emerging field of neurobehavioral toxicology and the potential of behavior studies as a noninvasive and economical means for risk assessment and monitoring Pioneers in this field explore its promise for detecting environmental toxins protecting us from exposure and treating those who are exposed

Neurobehavioral Methods and Effects in Occupational and Environmental Health Shunichi Araki, 2013-10-02

Neurobehavioral Methods and Effects in Occupational and Environmental Health documents the proceedings of the Fourth International Symposium in Environmental Research held in Tokyo in 1991 This book focuses on the development and application of neuropsychobehavioral methods in occupational and environmental health and advances in the knowledge of the effects on the nervous system and human behavior of occupational and environmental factors This compilation provides forceful evidence of different manifestations of neurotoxicity and their etiologies Neurotoxicity is a major adverse effect of chemical exposure and is particularly serious in developing countries This publication is a good reference for students and practitioners of disciplines such as behavioral science psychosomatic and occupational medicine nutrition and food science public health and hygiene and preventive medicine *Report of the Special Investigation Unit on Gulf War Illnesses:*

*Appendices* United States. Congress. Senate. Committee on Veterans' Affairs. Special Investigation Unit on Gulf War Illnesses, 1998 Environmental and Occupational Medicine William N. Rom, Steven B. Markowitz, 2007

**PROPOSAL DESCRIPTION** Now in its updated Fourth Edition this classic text provides comprehensive coverage of all aspects of occupational and environmental medicine The book offers accurate current information on the history causes prevention and treatment of a wide range of environmental and occupational diseases and includes numerous case studies This edition includes more information on gene environment interactions The section on air pollution has been completely reorganized Other Fourth Edition highlights include expanded coverage of government responses to the field and a new chapter on children s environmental health Now in its updated Fourth Edition this classic text provides comprehensive coverage of all aspects of occupational and environmental medicine The book offers accurate current information on the history causes prevention and treatment of a wide range of environmental and occupational diseases and includes numerous case studies This edition includes more information on gene environment interactions The section on air pollution has been completely reorganized Other Fourth Edition highlights include expanded coverage of government responses to the field and a new chapter on children s environmental health *Information Resources in Toxicology, Volume 1: Background, Resources, and*

*Tools*, 2020-05-16 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study research and practice of toxicology Both volumes represents a unique wide ranging curated international annotated bibliography and directory of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology s subdisciplines This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools Due to the increasing size of the hardcopy publication the current edition has been divided into two volumes to make it easier to handle and consult Volume 1 Background Resources and Tools arranged in 5 parts begins with chapters on the science of toxicology its history and informatics framework in Part 1 Part 2 continues with chapters organized by more specific subject such as cancer clinical toxicology genetic toxicology etc The categorization of chapters by resource format for example journals and newsletters technical reports organizations constitutes Part 3 Part 4 further considers toxicology s presence via the Internet databases and software tools Among the miscellaneous topics in the concluding Part 5 are laws and regulations professional education grants and funding and patents Volume 2 The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries followed by a glossary of toxicological terms and an appendix of popular quotations related to the field The book offered in both print and electronic formats is carefully structured indexed and cross referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed Among the many timely topics receiving increased emphasis are disaster preparedness nanotechnology omics risk assessment societal implications such as ethics and the precautionary principle climate change and children s environmental health Introductory chapters provide a backdrop to the science of toxicology its history the origin and status of toxicoinformatics and starting points for identifying resources Offers an extensive array of chapters organized by subject each highlighting resources such as journals databases organizations and review articles Includes chapters with an emphasis on format such as government reports general interest publications blogs and audiovisuals Explores recent internet trends web based databases and software tools in a section on the online environment Concludes with a miscellany of special topics such as laws and regulations chemical hazard communication resources careers and professional education K 12 resources funding poison control centers and patents Paired with Volume Two which focuses on global resources this set offers the most comprehensive compendium of print digital and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field

Human Toxicology of Chemical Mixtures Harold Zeliger, 2011-06-24 In this important reference work Zeliger catalogs the known effects of chemical mixtures on the human body and also proposes a framework for understanding and predicting their actions in terms of lipophile fat soluble hydrophile water soluble interactions The author s focus is on illnesses that ensue following exposures to mixtures of chemicals that cannot be attributed to any one component

of the mixture In the first part the mechanisms of chemical absorption at a molecular and macromolecular level are explained as well as the body's methods of defending itself against xenobiotic intrusion Part II examines the sources of the chemicals discussed looking at air and water pollution food additives pharmaceuticals etc Part III which includes numerous case studies examines specific effects of particular mixtures on particular body systems and organs and presents a theoretical framework for predicting what the effects of uncharacterized mixtures might be Part IV covers regulatory requirements and the need to adjust recommended exposure levels for products containing mixtures It also contains recommendations on how to limit exposure to mixtures in the products we use and on how to limit release of mixtures into the environment Providing brief summaries of each mixture and its effects Zeliger provides a comprehensive reference a jumping off point for professionals with extensive chapter bibliographies and an introduction to the topic for those studying traditional toxicology Addressing many inadequately understood illnesses and conditions such as asthma infertility and cancer it will also be of interest to health professionals environmental scientists and lawyers Presents a theoretical framework for predicting the effects of chemical mixtures for which no specific data exists this predictive aspect is important due to the vast number of different potential chemical combinations far too many to comprehensively catalog A quick and convenient source of hard to come by data on the rapidly developing field of chemical mixtures for groups including chemists and engineers toxicologists health professionals and environmental scientists New and updated material comprises over 30% of this timely new edition which includes the latest research data alongside an expanded introduction to the science and art of predicting the toxicological properties of chemical mixtures

**Clinical Environmental Health and Toxic Exposures** John Burke Sullivan, Gary R. Krieger, 2001 Now in its revised and updated Second Edition this volume is the most comprehensive and authoritative text in the rapidly evolving field of environmental toxicology The book provides the objective information that health professionals need to prevent environmental health problems plan for emergencies and evaluate toxic exposures in patients Coverage includes safety regulatory and legal issues clinical toxicology of specific organ systems emergency medical response to hazardous materials releases and hazards of specific industries and locations Nearly half of the book examines all known toxins and environmental health hazards A Brandon Hill recommended title

Contemporary Psychiatry Fritz Henn, Norman Sartorius, Hanfried Helmchen, Hans Lauter, 2013-11-11 Contemporary Psychiatry is an international textbook developed on the basis of the experience with its first three German editions making it a work with long and distinguished tradition It combines the German tradition of phenomenology and diagnosis going back to Kraepelin with the Anglo American tradition and the DSM IV diagnostic system In doing so Contemporary Psychiatry becomes a unique source among psychiatric texts offering a truly international approach to state of the art knowledge and future perspectives of psychiatry The four internationally renowned editors were able to acquire the leading specialists as contributors No less than 120 authors from 10 different countries ensure an extremely high standard and guarantee the consideration of cross cultural

aspects A special feature of Contemporary Psychiatry is that it includes chapters on psychiatric disorders caused by extreme circumstances such as for example migration torture rape violence and natural and man made disasters Environmental and Chemical Toxins and Psychiatric Illness James S. Brown, 2008-08-13 During the past 60 years the number of chemical disasters worldwide from military occupational and environmental sources has risen at an alarming rate The profound controversy surrounding many chemicals makes objective analysis nearly impossible Yet now more than ever with the daily exposure to a wide range of chemicals and the increased threat of chemical terrorism it is critical that we understand the role of chemicals in causing psychiatric illness Unlike related books this remarkable reference is intended specifically for psychiatric applications and is thus the definitive sourcebook for the many professionals called on to respond to these events This work stands alone as the first on this topic to be written by a psychiatrist and the first to bring together the military occupational and environmental exposures causing psychiatric illness including multiple chemical sensitivities mass hysteria radiation exposures community stress reactions and Gulf War and other syndromes Unique highlights include A summary of the reported psychiatric symptoms attributed to each chemical class chemical weapons pesticides fumigants metals solvents gases PCBs Agent Orange and other miscellaneous chemicals in tables for easy reference We use personal care products take prescription drugs pump gasoline drink alcohol and spray insecticides as part of our everyday lives Yet rarely do we realize that significant exposures to the chemicals described in this book many of which we are exposed to in daily activities can damage the central nervous system causing psychiatric illness A comprehensive bibliography in every chapter of all the important material in English language medical journals and books that has appeared on this subject since the late 19th century These bibliographies cover everything from the first published reports of the dangers of carbon disulfide in the French rubber industry dangers that American medicine ignored for years through more recent large scale chemical exposures that have serious long term consequences e g Love Canal The latest information about terrorist and military uses of chemical weapons of critical relevance in psychiatry today from World War I combatants exposed to chlorine phosgene mustard gas arsenic and cyanide to the first organophosphate or nerve gases such as tabun and sarin developed by the Germans before and during World War II and used by Iraq in the Gulf War and by a religious cult in the terrorist subway attacks in Tokyo and Matsumoto Japan Quite simply this book is a must have for psychiatric and medical professionals everywhere with extended appeal among laypersons such as environmental consumer advocates attorneys insurance professionals industrial hygienists disaster planners and medical librarians **Books in Print** ,1991 **Risk Assessment for Neurobehavioral Toxicity** Bernard Weiss, Jürg Elsner, 1997-07 After three decades of research neurobehavioral toxicity is now acknowledged as a significant outcome of chemical exposure Its health and economic costs may exceed those by cancer by substantial amounts This new perspective has been accompanied by efforts designed to explore the responsible mechanisms to design applicable risk assessment procedures and to determine the consequent policy implications This

publication includes 25 papers from international experts and includes human neurobehavioral toxicity animal behavioral methods selected model compounds and risk assessment      Occupational Neurology ,2015-11-09 Occupational Neurology a volume in the Handbook of Clinical Neurology Series provides a comprehensive overview of the science clinical diagnosis and treatment for neurotoxin related neurological and psychiatric disorders This timely collection provides not only a complete scientific reference on the chemical origin of this class of neurological and psychiatric disorders but also a practical guide to diagnosis and treatment challenges and best practices Handbook of Clinical Neurology Series The first volume of the Handbook of Clinical Neurology under the editorship of George Bruyn and Pierre Vinken was published in 1968 In 1982 the series was brought to an interim conclusion with the publication of the cumulative index volume Volume 44 By that stage the Handbook had come to represent one of the largest scientific works ever published It enjoys a high reputation in specialist media circles throughout the world After the series was concluded in 1982 it was realized that an update of the material was imperative Accordingly a revised series was planned and published over the following years concluding with the publication of another cumulative index to both series Volume 76 78 in 2002 Since then George Bruyn has passed away and Pierre Vinken has retired but the need for a further new series incorporating advances in the field again become necessary Professors Michael J Aminoff Fran ois Boller and Dick F Swaab have with enthusiasm taken on the responsibility of supervising the preparation of a third series the first volumes of which were published in 2003 Now more than 130 volumes after the first published the Handbook of Clinical Neurology series continues to have an unparalleled reputation for providing the latest foundational research diagnosis and treatment protocols essential for both basic neuroscience research and clinical neurology Provides comprehensive coverage of neurotoxins especially in the workplace Details the latest science as the foundation for neurotoxicity diagnosis and treatment Presents coverage of the diagnosis and treatment essential for clinical neurologists and occupational medicine specialists      Information Resources in Toxicology P.J. Bert Hakkinen,Asish Mohapatra,Steven G. G. Gilbert,2009-08-19 This latest version of Information Resources in Toxicology IRT continues a tradition established in 1982 with the publication of the first edition in presenting an extensive itemization review and commentary on the information infrastructure of the field This book is a unique wide ranging international annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment Thoroughly updated the current edition analyzes technological changes and is rife with online tools and links to Web sites IRT IV is highly structured providing easy access to its information Among the hot topics covered are Disaster Preparedness and Management Nanotechnology Omics the Precautionary Principle Risk Assessment and Biological Chemical and Radioactive Terrorism and Warfare are among the designated International in scope with contributions from over 30 countries Numerous key references and relevant Web links Concise narratives about toxicologic sub disciplines Valuable appendices such as the IUPAC Glossary of Terms in Toxicology Authored by experts in



their respective sub disciplines within toxicology      *Risk Assessment for Neurobehavioral Toxicity* Scientific Group on  
Methodologies for the Safety Evaluation of Chemicals. Workshop, 1996

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