

# SOLVENTS

## SAFE USE OF SOLVENTS

### WHAT IS A SOLVENT?

Generally speaking, solvents are fluids that are used to dissolve other components.

In the paint industry, solvents are fluids or mixtures of liquids that dissolve resin and carry pigments and other paint components. In the case of water based paints, the solvent is water. But this water, far from being immiscible in the resin, has dissolved in it. Small amounts of other solvents are also added to water based paints.

These are three major uses of solvents in the paint industry:

- As a dissolving agent to remove old layers from a substrate or preparation for painting, such as clean an impregnated wood before and before after paint application. Solvent also has disinfectant and solvent properties and hence has cleaning action making it useful in non-petroleum industries like the automotive, etc. The use of solvents to remove hydrocarbon and 2 phase sludges can result in the solvent separating the grease and oil and then evaporating it or otherwise the use has failed to be successful.
- As an impregnant of a paper/impregnator.
- As a paint thinner or as an additive to paint to adjust application properties.

Common solvents used in paint include, but are not limited to water, methyl ethyl ketone (MEK), hexamine (cellar spirit), n-butylated glycol, acetone, oil solvents and alcohols, xylene, toluene and acetone. With the exception of water, solvents are liquids that is, they are carbon-based, derived from petroleum-based or organic.

Water, called as a common solvent, the paint "thinner" or the "thin" that will refer to organic solvent.

### WHY ADD SOLVENT?

The purpose of solvents in a paint formulation is to make the paint flow from the container to the substrate in a form that allows the paint to be applied, spread or rolled uniformly, and to assist in achieving the good level and dry film thickness required to offer the performance properties as stated on the product data sheet.

Solvents can be chosen to improve the following key paint application properties of paint, such as:

- Viscosity
- Flow rate
- Dry time
- Spreading rate
- Film edge

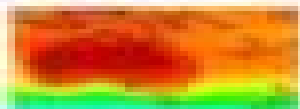
For example, today's trend is towards lower viscosity to produce more uniform films. But even there, sometimes when something is rolling down to reduced wet edge and the appearance of excessive brushstrokes and "orange-peeling" like appearance of a dried ridge across the perimeter of a wall where the thickness of substrate coating, the roller applied uniformly.



Solvents reduce the viscosity of paint formulations, improve application, and assist in achieving uniform films.



The brush is used to apply paint to a surface. The brush is used to apply paint to a surface. The brush is used to apply paint to a surface.



# Safe Use Of Solvents

**H Kauffman**



## Safe Use Of Solvents:

**Safe Use of Chemicals** T.S.S. Dikshith, 2008-08-21 Occupational workers frequently use store and dispose of toxic chemicals without knowing the possible consequences both for the workplace and the environment Improper use or misuse of chemical substances can result in health disorders fatalities or chemical disasters Safe Use of Chemicals A Practical Guide presents quick and comprehensive information *Safe Use of Solvents* A. J. Collings, S. G. Luxon, International Union of Pure and Applied Chemistry. Applied Chemistry Division, 1982

**Databook of Solvents** George Wypych, 2019-03-21 Databook of Solvents Second Edition has been redesigned to include all high production volume solvents and has been completely updated with the most up to date findings data and commercial developments With more than 250 of the most essential solvents used in everyday industrial practice the book includes their physical properties health and safety considerations such as carcinogenicity reproduction developmental toxicity flammability and first aid guidance Emphasis is placed on cost saving and efficient replacements for more toxic solvents Detailed information is also given for usage considerations including outstanding properties potential substitutes features and recommended benefits for each solvent Includes more than 250 of the most essential solvents Provides practical information for use in the lab and the field including recommended processing methods dosages and potential substitutes Presents environmental considerations thus enabling practitioners to find more efficient replacements for toxic solvents Safety with Solvents H. B. Humphrey, Genevieve Morgis, 1956

*Industrial Solvents Handbook, Revised And Expanded* Nicholas P. Cheremisinoff, 2003-04-15 Keeping pace with current trends in solvent production this volume builds upon its previous edition with broader coverage of safe handling practices health effects physical properties and chemical synthesis routes to some of the most important organic solvents used in the chemical and allied process industries This handy reference features a glossary of solvent terminology and an easy to reference index of synonyms for chemicals and solvents The Second Edition features new and updated chapters on the major classes of organic solvents descriptions for general use and the chemical formulation thermodynamic properties health and toxicity and combustible characteristics of solvents Environmentally Safe Substances for Use with

Communications-electronics Equipment, 1995 **Solvent Effects in Chemistry** Erwin Buncl, Robert A. Stairs, 2015-08-03 This book introduces the concepts theory and experimental knowledge concerning solvent effects on the rate and equilibrium of chemical reactions of all kinds It begins with basic thermodynamics and kinetics building on this foundation to demonstrate how a more detailed understanding of these effects may be used to aid in determination of reaction mechanisms and to aid in planning syntheses Consideration is given to theoretical calculations quantum chemistry molecular dynamics etc to statistical methods chemometrics and to modern day concerns such as green chemistry where utilization and disposal of chemical waste or by products in an environmentally safe way is as important as achieving the desired end products by all chemists nowadays The treatment progresses from elementary to advanced material in straightforward fashion The more

advanced topics are not developed in an overly rigorous way so that upper level undergraduates graduates and newcomers to the field can grasp the concepts easily

### **Alternative Solvents for Green Chemistry** Francesca Kerton,Ray

Marriott,2015-11-09 Everyone is becoming more environmentally conscious and therefore chemical processes are being developed with their environmental burden in mind This also means that more traditional chemical methods are being replaced with new innovations and this includes new solvents Solvents are everywhere but how necessary are they They are used in most areas including synthetic chemistry analytical chemistry pharmaceutical production and processing the food and flavour industry and the materials and coatings sectors However the principles of green chemistry guide us to use less of them or to use safer more environmentally friendly solvents if they are essential Therefore we should always ask ourselves do we really need a solvent Green chemistry as a relatively new sub discipline is a rapidly growing field of research Alternative solvents including supercritical fluids and room temperature ionic liquids form a significant portion of research in green chemistry This is in part due to the hazards of many conventional solvents e g toxicity and flammability and the significant contribution that solvents make to the waste generated in many chemical processes Solvents are important in analytical chemistry product purification extraction and separation technologies and also in the modification of materials Therefore in order to make chemistry more sustainable in these fields a knowledge of alternative greener solvents is important This book which is part of a green chemistry series uses examples that tie in with the 12 principles of green chemistry e g atom efficient reactions in benign solvents and processing of renewable chemicals materials in green solvents Readers get an overview of the many different kinds of solvents written in such a way to make the book appropriate to newcomers to the field and prepare them for the green choices available The book also removes some of the mystique associated with alternative solvent choices and includes information on solvents in different fields of chemistry such as analytical and materials chemistry in addition to catalysis and synthesis The latest research developments not covered elsewhere are included such as switchable solvents and biosolvents Also some important areas that are often overlooked are described such as naturally sourced solvents including ethanol and ethyl lactate and liquid polymers including poly ethyleneglycol and poly dimethylsiloxane As well as these additional alternative solvents being included the book takes a more general approach to solvents not just focusing on the use of solvents in synthetic chemistry Applications of solvents in areas such as analysis are overviewed in addition to the more widely recognised uses of alternative solvents in organic synthesis Unfortunately as the book shows there is no universal green solvent and readers must ascertain their best options based on prior chemistry cost environmental benefits and other factors It is important to try and minimize the number of solvent changes in a chemical process and therefore the importance of solvents in product purification extraction and separation technologies are highlighted The book is aimed at newcomers to the field whether research students beginning investigations towards their thesis or industrial researchers curious to find out if an alternative solvent would be suitable in their work

**Laboratory**

**Safety for Chemistry Students** Robert H. Hill, Jr., David C. Finster, 2016-05-02 Provides knowledge and models of good practice needed by students to work safely in the laboratory as they progress through four years of undergraduate laboratory work Aligns with the revised safety instruction requirements from the ACS Committee on Professional Training 2015 Guidelines and Evaluation Procedures for Bachelor's Degree Programs Provides a systematic approach to incorporating safety and health into the chemistry curriculum Topics are divided into layers of progressively more advanced and appropriate safety issues so that some topics are covered 2-3 times at increasing levels of depth Develops a strong safety ethic by continuous reinforcement of safety to recognize, assess and manage laboratory hazards and to plan for response to laboratory emergencies Covers a thorough exposure to chemical health and safety so that students will have the proper education and training when they enter the workforce or graduate school

**Directory of Solvents** B.P. Whim, P.G. Johnson, 2012-12-06 Organic solvents represent a class of compounds whose utility is central to industrial and academic chemistry The impact of solvents in everyday products such as paints, surface coatings, adhesives, pharmaceuticals and cleaning products is enormous and there is therefore much interest in their use This volume is divided into two parts Part 1 provides an authoritative review of the science and technology of solvents and related issues The topics covered are solvency and its measurement, flammability, health and toxicology, environmental issues, legislative information, transport, storage, recovery and disposal and a review of solvent applications Part 2 provides reliable up-to-date data based on information provided by manufacturers and suppliers and is presented as a database of over 350 solvent products subdivided by solvent group The data are also presented in key parameter tables covering boiling points, melting points, evaporation information, vapor pressure, flash points, solubility parameters, auto-ignition temperatures and names and addresses of manufacturers with trade names In recent years there has been increased interest in health and safety, environmental issues and aspects of the legislative control of chemicals including solvents and the choice of a given solvent has therefore become more complex The Directory of Solvents aims to provide in one place a broad spread of physico-chemical data together with transport, safety, environmental and classification information provided by major European and U.S. suppliers and manufacturers of industrial organic solvents

*Safety Review*, 1972 *Basic military requirements*, 2003 *Toxicity and Safe Handling of Rubber Chemicals*, 1999 An essential reference book in every rubber factory the BRMA code of practice has been fully updated by Rapra and the BRMA The book provides a guide to the safe use of rubber chemicals Several hundred chemicals are examined including fillers, accelerators and retarders, vulcanising agents, antidegradants, peroxide process oils and waxes, peptisers, plasticisers, blowing agents, bonding agents, latex auxiliaries, pigments, tackifiers and solvents More than 30 new chemicals have been added since the last edition

**Printmaking Second Edition** Beth Grabowski, Bill Fick, 2025-03-27 Printmaking is a practical and comprehensive guide to printmaking techniques This fully updated edition includes expanded chapters on digital and mixed media processes and a brand new Print Make chapter which explores the

opportunities for creative expression within the many processes available to print makers The more traditional techniques of relief intaglio collograph lithography screen printing and monoprint have also been refreshed with the addition of new images showing a broader range of subject matter including more contemporary prints and international artists Each technique is explored from the development of the printing or digital matrix through the different stages of creation to image output Guidance on how to set up a print studio sections on troubleshooting techniques and the inclusion of up to date lists of suppliers workshops and galleries make this an essential volume for beginner and experienced printmakers alike

**Environmental Investigation and Remediation** Thomas K.G. Mohr, William H. DiGuseppi, James W. Hatton, Janet Katherine Anderson, 2019-12-23 Filled with updated information equations tables figures and citations Environmental Investigation and Remediation 1 4 Dioxane and Other Solvent Stabilizers Second Edition provides the full range of information on 1 4 dioxane It offers passive and active remediation strategies and treatment technologies for 1 4 dioxane in groundwater and provides the technical resources to help readers choose the best methods for their particular situation This new edition includes all new information on remediation costs and reflects the latest research in the field It includes new practical case studies to illustrate the concepts presented including 1 4 dioxane occurrence in Long Island and the Cape Fear watershed in North Carolina Features Fully updated throughout to reflect the most recent research on 1 4 dioxane Describes the nature and extent of 1 4 dioxane releases their regulation and their remediation in a variety of geologic settings Examines 1 4 dioxane analytical chemistry its many industrial uses and 1 4 dioxane occurrence as a byproduct in production of many products Provides ample site data for recent and relevant remediation case studies and a review of the widely varying regulatory landscape for 1 4 dioxane cleanup levels and drinking water limits Discusses the importance of accounting for contaminant archeology in investigating contaminated sites and leveraging solvent stabilizers in forensic investigations While written primarily for practicing professionals such as environmental consultants and attorneys water utility engineers and laboratory managers the book will also appeal to researchers and academics as well This new edition serves as a highly useful reference on the occurrence sampling and analysis and remedial investigation and design for 1 4 dioxane and related contaminants

*The Artist's Complete Health and Safety Guide* Monona Rossol, 2001-11-01 In its third edition The Artist's Complete Health and Safety Guide speaks to today's artists in the clearest terms possible Through dozens of handy tables diagrams and charts this volume points out dangerous ingredients found in specific brands of paint dye and adhesives simple supplies such as goggles and ladders that keep classrooms and studios safe and steps that art educators can take to comply with OSHA regulations This volume also details helpful and potentially life saving subjects such as Questions to ask when ordering art supplies Recommendations for proper ventilation Safe work practices Precautions for individual media Art materials and projects for children and other high risk individuals Not only artists but those who work in school administration health care and risk analysis will benefit from the surprising facts revealed For example art and craft supplies

labeled as biodegradable water based and natural must be handled with utmost caution because they can still contain highly toxic properties With the information contained in The Artist s Complete Health and Safety Guide artists can at last be free from fear and confusion to return to creativity in the safest healthiest environment possible     Hayes' Principles and Methods of Toxicology A. Wallace Hayes,Tetyana Kobets,2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment     **Hayes' Principles and Methods of Toxicology, Sixth Edition** A. Wallace Hayes,Claire L. Kruger,2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chapters that address the advances and developments since the fifth edition the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity enabling them to better assess risk The book begins with the four basic principles of toxicology dose matters people differ everything transforms and timing is crucial The contributors discuss various agents of toxicity including foodborne solvents crop protection chemicals radiation and plant and animal toxins They examine various methods for defining and measuring toxicity in a host of areas including genetics carcinogenicity toxicity in major body systems and the environment This new edition contains an expanded glossary reflecting significant changes in the field New topics in this edition include The importance of dose response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one stop reference

for professionals     Encyclopaedia of Occupational Health and Safety Jeanne Mager Stellman, 1998     *Handbook of Organic Industrial Solvents* Alliance of American Insurers, 1980



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