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Biphasic Chemistry and The Solvent Case - Jean-Philippe Goddard 2020-02-05

Biphasic Chemistry and The Solvent Case examines recent improvements in reaction conditions, in order to affirm the role of chemistry in the sustainable field. This book shows that those who work within the chemistry industry support limits for the use of toxic or flammable solvents, since it reduces the purifications to simple filtrations. Thanks to commercial scavengers, solid phase syntheses are now available to all. Fluorine biphasic catalysis enables extremely efficient catalyst recycling and has a high applicability potential at the industrial level. This book also reviews the many studies that have shown that water is a solvent of choice for most synthetic reactions. Particular traits can be obtained and the effects on thermodynamics make it possible to operate at lower temperatures, thereby achieving energy savings. Finally the great diversity of application of the reactions without solvents is illustrated.

Hot-Melt Extrusion - Dennis Douroumis 2012-06-25

Hot-melt extrusion (HME) - melting a substance and forcing it through an orifice under controlled conditions to form a new material - is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems, for example granules and sustained release tablets. Hot-Melt Extrusion: Pharmaceutical Applications covers the main instrumentation, operation principles and theoretical background of HME. It then focuses on HME drug delivery systems, dosage forms and clinical studies (including pharmacokinetics and bioavailability) of HME products. Finally, the book includes some recent and novel HME applications, scale-up considerations and regulatory issues. Topics covered include: principles and die design of single screw extrusion twin screw extrusion techniques and practices in the laboratory and on production scale HME developments for the pharmaceutical industry solubility parameters for prediction of drug/polymer miscibility in HME formulations the influence of plasticizers in HME applications of polymethacrylate polymers in HME HME of ethylcellulose, hypromellose, and polyethylene oxide bioadhesion properties of polymeric films produced by HME taste masking using HME clinical studies, bioavailability and pharmacokinetics of HME products injection moulding and HME processing for pharmaceutical materials laminar dispersive & distributive mixing with dissolution and applications to HME technological considerations related to scale-up of HME processes devices and implant systems by HME an FDA perspective on HME product and process understanding improved process understanding and control of an HME process with near-infrared spectroscopy Hot-Melt Extrusion: Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science. This is the first book from our brand new series Advances in Pharmaceutical Technology. Find out more about the series here.

Additives and Materials - P.W. Dufton 1995

This report examines the changes in the nature and technologies of fire retardant systems used in the complete range of plastics and rubber materials.

A Concise Introduction to Additives for Thermoplastic Polymers - Johannes Karl Fink 2010-01-05

Describes twenty-one of the most important and commonly used additives A Concise Introduction to Additives for Thermoplastic Polymers focuses on additives for thermoplastic polymers and describes 21 of the most important and commonly used additives from Plasticizers and Fillers to Optical Brighteners and Anti-Microbial additives. It also includes chapters on safety and hazards, and prediction of service time models. While there are many exhaustive and complex books dealing with additives for polymers, the size of them deter students and many industry engineers from using them. The purpose of this book, therefore,

is to fill this void and present a concise introduction to this important subject. Written in an accessible and practical style, the author introduces the reader to the complex subject of plastics additives in an engaging manner. His ability to be concise is the result of his teaching courses on the subject and using his own lecture notes for material. This book comprises the author's course notes so that a larger public can benefit from his knowledge. A Concise Introduction to Additives for Thermoplastic Polymers is the ideal primer for students who will later work in polymer science or the development of plastics formulation, as well as industry engineers and specialists who want to have a deeper knowledge of the plastics industry.

Advances in Refining Catalysis - Deniz Uner 2017-03-16

To meet changing market demands that have stringent emission standards and to ensure proper performance in refinery units, evaluation of novel catalyst designs and results from material characterization and testing of catalysts are of crucial importance for refiners as well as for catalyst manufacturers. This book highlights recent developments in the application of refinery catalysts in selected units such as fluid catalytic cracking (FCC), hydrogen production for hydroprocessing units, hydrotreating, hydrocracking, and sustainable processing of biomass into biofuels.

Wood Coatings - Franco Bulian 2009-06-02

Wood Coatings addresses the factors responsible for the performance of wood coatings in both domestic and industrial situations. The term 'wood coatings' covers a broad range of products including stains, varnishes, paints and supporting ancillary products that may be used indoors or outdoors. Techniques for coating wood go back many centuries but in recent decades there has been a move towards more environmentally-friendly materials, for example, the use of water-borne rather than solvent-borne chemicals. A major objective of Wood Coatings is to explain the underlying factors that influence selection, application and general operational issues. Basic information on the chemistry and technology of coatings is included for the benefit of students and laboratory technicians. Additionally, the book includes individual chapters of interest to architects, specifiers, and industrial users. * Offers up-to-date guidance on current availability and usage of wood coatings * Provides the reader with a basic understanding of both coating and substrate interactions * Covers both architectural (trade and DIY) and industrial sectors

Databook of Surface Modification Additives - George Wypych 2018-04-06

Databook of Surface Modification Additives contains data on 7 groups of additives, including anti-scratch and mar-preventing additives, gloss enhancement and surface matting additives, additives for formation of tack-free surface and tackifiers, and stain inhibiting additives. The information on each adhesion promoter is divided into five sections, including General Information, Physical Properties, Health and Safety, Ecological Properties and Use and Performance. This databook will be an extremely useful source of data for engineers, researchers and technicians interested in using additives to modify and improve the surface properties of materials. Provides detailed, up-to-date, essential data on 7 groups of additives Covers general information, physical-chemical properties, health and safety, ecological properties and use and performance Includes recommendations for specific products, applications, processing methods and the concentration used

Additives for Coatings - Johan Bieleman 2008-09-26

No doubt: A perfect coating has to look brilliant! But other properties of coatings are also most important. Coatings have to be durable, tough and easily applicable. Additives are the key to success in achieving these characteristics, even though the amounts used in coating formulations are small. It is not trivial at all to select the best additives. In practice, many series of tests are often necessary, and the results do not explain, why a certain additive improves the quality of a coating and another one impairs the coating. This book is dedicated to developers and applicants

of coatings working in research or production, and it is aimed at providing a manual for their daily work. It will answer the following questions: How do the most important groups of additives act? Which effects can be achieved by their addition? Scientific theories are linked to practical applications. Emphasis is put on the optical aspects that are most important for the applications in practice. This book is a milestone in quality assurance in the complete field of coatings!

High Performance Pigments - Hugh M. Smith 2002

This volume is the ideal companion to Wiley's trilogy: The Pigments Handbook (1988), Industrial Organic Pigments (1997), and Industrial Inorganic Pigments (1998). High Performance Pigments have become increasingly important in recent years, with a growth rate well in advance of the more classical types of pigments. The book offers both producers and users of High Performance Pigments the opportunity to review and update their understanding of latest technologies and market issues impacting both inorganic and organic High Performance Pigments, together with assessing key regulatory affairs, in this specialty niche of the chemical industry. The manufacture of High Performance Pigments is today a global industry. This is reflected in the multinational expertise of the over twenty experts, drawn from Europe, North America and Asia, who have authored chapters in this book. No professional today can afford to waste time on unfocussed research. This book will effectively help chemists, physicists, engineers, applications and regulatory specialists, and materials scientists to stay ahead in this fast-changing field.

Amines—Advances in Research and Application: 2013 Edition - 2013-06-21

Amines—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Methylamines. The editors have built Amines—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Methylamines in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Amines—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

The Effect of Sterilization on Plastics and Elastomers - Laurence W. McKeen 2018-02-22

The Effect of Sterilization Methods on Plastics and Elastomers, Fourth Edition brings together a wide range of essential data on the sterilization of plastics and elastomers, thus enabling engineers to make optimal material choices and design decisions. The data tables in this book enable engineers and scientists to select the right materials and sterilization method for a given product or application. The book is a unique and essential reference for anybody working with plastic materials that are likely to be exposed to sterilization methods, be it in medical device or packaging development, food packaging or other applications. Presents essential data and practical guidance for engineers and scientists working with plastics in applications that require sterile packaging and equipment Updated edition removes obsolete data, updates manufacturers, verifies data accuracy, and adds new plastics materials for comparison Provides essential information and guidance for FDA submissions required for new medical devices

Nitroxides - Olivier Ouari 2021-05-13

Nitroxides are versatile small organic molecules possessing a stabilised free radical. With their unpaired electron spin they display a unique reactivity towards various environmental factors, enabling a diverse range of applications. They have uses as synthetic tools, such as catalysts or building blocks; imaging agents and probes in biomedicine and materials science; for medicinal antioxidant applications; and in energy storage. Polynitroxides (polymers bearing pendant nitroxide sidechains) have been used in organic radical batteries, oxidation catalysts and in exchange reactions for constructing complex architectures. Chapters in this book cover the synthesis of nitroxides, EPR studies and magnetic resonance applications, physiochemical studies, and applications including in batteries, imaging and organic synthesis. With contributions from leaders in the field, Nitroxides will be of interest to graduate students and researchers across chemistry, physics, biology and materials science.

Smart Manufacturing - Masoud Soroush 2020-08-04

Research efforts in the past decade have led to considerable advances in the concepts and methods of smart manufacturing. Smart Manufacturing: Applications and Case Studies includes information about the key applications of these new methods, as well as practitioners' accounts of real-life applications and case studies. Written by thought leaders in the field from around the world, Smart Manufacturing: Applications and Case Studies is essential reading for graduate students, researchers, process engineers and managers. It is complemented by a companion book titled Smart Manufacturing: Concepts and Methods, which describes smart manufacturing methods in detail. Includes examples of applications of smart manufacturing in process industries Provides a thorough overview of the subject and practical examples of applications through well researched case studies Offers insights and accounts of first-hand experiences to motivate further implementations of the key concepts of smart manufacturing
ANTEC 2001 - Society of Plastics Engineers. Technical Conference 2001

Detergents and the Environment - Milan Johann Schwuger 1996-09-12

Offers coverage of the environmental behaviour of detergent additives, focusing on physiochemical interactions with soil and sediments. This text presents the current state of knowledge on recently introduced detergent additives, including zeolites, polycarboxylate compounds, ethylene dinitrilotetraacetic acid (EDTA), and nitrilotriacetic acid (NTA).

Databook of Antioxidants - Anna Wypych 2020-03-03

Databook of Antioxidants is divided into five sections covering general information, physical properties, health and safety considerations, ecological properties and the use and performance of each featured antioxidant. A general information section includes CAS #, common name/synonym, acronym, chemical category, moisture content, and more. The physical properties section features data on state, odor, color (Gardner and Platinum-cobalt scales), acid number, ash contents, and other characteristics. The health and safety section displays data on flashpoint, autoignition temperatures, explosive LEL and UEL, NFPA flammability and reactivity, ingestion, first aid, and beyond. The ecological properties portion of the book contains data on biodegradation probability, aquatic toxicity LC50, and partition coefficients, and the book concludes with a chapter on use and performance considerations with information on manufacturer, outstanding properties, typical applications, recommended dosage, concentration used, food approval, and more. This book is an excellent companion to the Handbook of Antioxidants which has also been published recently. Both books supplement each other without repeating the same information - one contains data another theory, mechanisms of action, practical effects and implications of application. Contains information on each antioxidant that is broken into five sections: General Information, Physical Properties, Health and Safety, Ecological Properties and Use and Performance Includes an introductory chapter in which general indicators of performance are discussed Features a chapter with information on the data fields included in the description of individual stabilizers

Business Chemistry - Jens Leker 2018-03-07

Business Chemistry: How to Build and Sustain Thriving Businesses in the Chemical Industry is a concise text aimed at chemists, other natural scientists, and engineers who want to develop essential management skills. Written in an accessible style with the needs of managers in mind, this book provides an introduction to essential management theory, models, and practical tools relevant to the chemical industry and associated branches such as pharmaceuticals and consumer goods. Drawing on first-hand management experience and in-depth research projects, the authors of this book outline the key topics to build and sustain businesses in the chemical industry. The book addresses important topics such as strategy and new business development, describes global trends that shape chemical companies, and looks at recent issues such as business model innovation. Features of this practitioner-oriented book include: Eight chapters covering all the management topics relevant to chemists, other natural scientists and engineers. Chapters co-authored by experienced practitioners from companies such as Altana, A.T. Kearney, and Evonik Industries. Featured examples and cases from the chemical industry and associated branches throughout chapters to illustrate the practical relevance of the topics covered. Contemporary issues such as business model design, customer and supplier integration, and business co-operation.

Formulation of Microbial Biopesticides - H.D. Burges 2012-12-06

Sound formulation is a vital aspect of microbial products used to protect plants from pests and diseases and to improve plant performance.

Formulation of Microbial Biopesticides is an in-depth treatment of this vitally important subject. Written by experts and carefully edited, this important title brings together a huge wealth of information for the first time within the covers of one book. The book is broadly divided into five sections, covering principles of formulation, organisms with peroral and contact modes of action, organisms with the power of search, and future trends. Each section contains comprehensive chapters written by internationally acknowledged experts in the areas covered; the book also includes three very useful appendices, cataloguing formulation additives, spray application criteria and terminology. This outstanding book is a vitally important reference work for anyone involved in the formulation of microbial biopesticides and should find a place on the shelves of agriculture and plant scientists, microbiologists and entomologists working in academic and commercial agrochemical situations, and in the libraries of all research establishments and companies where this exciting subject is researched, studied or taught.

Industrial Applications of Renewable Plastics - Michel Biron
2016-11-10

Industrial Applications of Renewable Plastics: Environmental, Technological, and Economic Advances provides practical information to help engineers and materials scientists deploy renewable plastics in the plastics market. It explores the uses, possibilities, and problems of renewable plastics and composites to assist in material selection and rejection. The designer's main problems are examined, along with basic reminders that deal with structures and processing methods that can help those who are generally familiar with metals understand the unique properties of plastic materials. The book offers a candid overview of main issues, including conservation of fossil resources, geopolitical considerations, greenhouse effects, competition with food crops, deforestation, pollution, and disposal of renewable plastics. In addition, an overview of some tools related to sustainability (Life cycle assessments, CO₂ emissions, carbon footprint, and more) is provided. The book is an essential resource for engineers and materials scientists involved in material selection, design, manufacturing, molding, fabrication, and other links in the supply chain of plastics. The material contained is of great relevance to many major industries, including automotive and transport, packaging, aeronautics, shipbuilding, industrial and military equipment, electrical and electronics, energy, and more. Provides key, enabling information for engineers and materials scientists looking to increase the use of renewable plastic materials in their work. Presents practical guidance to assist in materials selection, processing methods, and applications development, particularly for designers more familiar with other materials, such as metals. Includes a candid discussion of the pros and cons of using renewable plastics, considering the technical, economic, legal, and environmental aspects.

Ullmann's Polymers and Plastics - Wiley-VCH 2016-03-18

Your personal Ullmann's: Chemical and physical characteristics, production processes and production figures, main applications, toxicology and safety information are all to be found here in one single resource - bringing the vast knowledge of the Ullmann's Encyclopedia to the desks of industrial chemists and chemical engineers. The ULLMANN'S perspective on polymers and plastics brings reliable information on more than 1500 compounds and products straight to your desktop. Carefully selected "best of" compilation of 61 topical articles from the Encyclopedia of Industrial Chemistry on economically important polymers provide a wealth of chemical, physical and economic data on more than 1000 different polymers and hundreds of modifications. Contains a wealth of information on the production and use of all industrially relevant polymers and plastics, including organic and inorganic polymers, fibers, foams and resins. Extensively updated: more than 30% of the content has been added or updated since the launch of the 7th edition of the Ullmann's encyclopedia in 2011 and is now available in print for the first time. 4 Volumes.

Understanding Additives - Bodo Müller 2019-09-11

This book covers everything about the mode of action, application and possible side effects of the most important coatings additives - in a single volume, presented in a textbook style. It reflects the needs of practical work - thus it enables the reader to rapidly gain a solid grounding in these critical, yet complex constituents of all paint formulations. It provides both an overview and in-depth basic knowledge of the most important classes of additives. The various types of damage eliminated or prevented by additives are vividly illustrated with colour photos. An indispensable companion for formulators!

Handbook of Industrial Chemical Additives - Michael Ash 1991

Contains over 18,000 entries for chemical trademark products currently

sold throughout the world.

Additives for Waterborne Coatings - Wernfried Heilen 2014

This ebook offers an overview of the most important aspects and applications of additives for waterborne systems in diverse market segments. Wernfried Heilen helps to understand how additives work and elucidates all kinds of mechanisms in great detail. Furthermore he dispels a lot of myths surrounding paint additives with an excellent combination of theory and practice. This enables a deep insight into all the different application areas for additives in waterborne paint systems.

Databook of Antiblocking, Release, and Slip Additives - Anna Wypych 2021-01-26

Databook of Antiblocking, Release, and Slip Additives, Second Edition contains detailed information on over 300 important additives for polymers, including additives that are used to minimize adhesion, aid separation, and enhance processing and end-applications for polymers. Each additive is presented with data in the following categories: General Information, Physical Properties, Health and Safety, Ecological Properties, and Use and Performance. Data fields covered include state, odor, color, autoignition temperature, probability of biodegradation, and much more. Recommendations are given for specific products, processing methods, and mold materials, and an assessment is given for each additive's features and benefits. Contains the most extensive data available on a large number of antiblocking, release and slip additives for polymers. Features 130 data fields for each additive that are divided into General Information, Physical Properties, Health and Safety, Ecological Properties, and Use and Performance. Includes an assessment of the benefits and properties of each additive, recommended dosages and processing methods.

Digital Transformation of Animal Health Data: Proceedings of the AHEAD 2017 Workshop - Flavie Vial 2018-08-30

The Organisation for Economic Co-operation and Development (OECD)'s Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems sponsored the AHEAD 2017 workshop, bringing together experts from the farming and pharmaceutical industries, information and communications technology, policy, research (and more) to create a roadmap to the digital transformation of animal health surveillance. In many countries, policy supports the reduction of antibiotic use and a growing focus in the veterinary practice is to move away from blanket dosage of antibiotics, for example for mastitis. Significant and speedy improvements can take place, but only with coordinated actions supported by the entire value chain. Reducing the use of antibiotics is of massive societal importance, but changing on farm or veterinary methods requires thought and a user-centred approach. The most glaring and addressable challenge is the absence of near real-time data and information. AHEAD 2017 explored how governments globally can benefit from increased digitisation in animal health. For effective monitoring, it is important to first understand the relevant tasks of each stakeholder in the food value chain. In these proceedings we openly discuss and define these tasks, identify existing challenges to completion of these tasks, and suggest the business opportunities overcoming these challenges can create. Through this publication, it is our intention to encourage open discussion, design and co-creation of an improved digital approach to animal health and drug usage in agriculture. The Workshop was sponsored by the OECD Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems, whose financial support made it possible for most of the invited speakers to participate in the Workshop. The opinions expressed and arguments employed in this publication are the sole responsibility of the authors and do not necessarily reflect those of the OECD or of the governments of its Member countries.

Polymers for Personal Care Products and Cosmetics - Xian Jun Loh 2016

All aspects of the personal care industry will be comprehensively discussed in *Polymers for Personal Care Products and Cosmetics*, including polymer synthesis, safety issues, and potential applications of a variety of materials in this large industry. There will be a broad overview of cosmetic ingredients, vehicles and finished products as well as coverage of the main methodologies for synthesis, safety and application testing. The reader will be provided with a solid background of the fundamentals of the area, before being brought up to date on the future of this field, along with discussion of the latest materials trends and future perspectives. Written by a world renowned expert in the area, the book will provide a unique look into this fast developing industry from insights obtained from key experts in industry and academia. The advantages and disadvantages of the technologies involved in the

development of these materials are highlighted, providing a balanced and thorough review of the current state-of-the-art research. This book will appeal to researchers, academics and students working in polymer and materials chemistry, particularly those with an interest in personal care products.

Petroleum Review - 1993

Petroleum Engineer's Guide to Oil Field Chemicals and Fluids - Johannes Fink 2015-08-31

The oil and gas engineer on the job requires knowing all the available oil field chemicals and fluid applications that are applicable to the operation. Updated with the newest technology and available products, *Petroleum Engineer's Guide to Oil Field Chemicals and Fluids*, Second Edition, delivers all the necessary lists of chemicals by use, their basic components, benefits, and environmental implications. In order to maintain reservoir protection and peak well production performance, operators demand to know all the options that are available. Instead of searching through various sources, *Petroleum Engineer's Guide to Oil Field Chemicals and Fluids*, Second Edition, presents a one-stop non-commercialized approach by organizing the products by function, matching the chemical to the process for practical problem-solving and extending the coverage with additional resources and supportive materials. Covering the full spectrum, including fluid loss additives, drilling muds, cement additives, and oil spill treating agents, this must-have reference answers to every oil and gas operation with more options for lower costs, safer use, and enhanced production. Effectively locate and utilize the right chemical application specific to your oil and gas operation with author's systematic approach by use Gain coverage on all oil field chemicals and fluids needed throughout the entire oil and gas life cycle, including drilling, production, and cementing Understand environmental factors and risks for oil field chemicals, along with pluses and minuses of each application, to make the best and safest choice for your operation

Additives for Polyolefins - Michael Tolinski 2009-09-22

This book focuses on the polyolefin additives that are currently important in the plastics industry, alongside new additives of increasing interest, such as nanofillers and environmentally sustainable materials. As much as possible, each chapter emphasizes the performance of the additives in the polymer, and the value each relevant additive brings to polypropylene or polyethylene. Where possible, similar additives are compared by capability and relative cost. With major sections for each additive function, this book provides a highly practical guide for engineers and scientists creating and using polyolefin compounds, who will find in this book a wealth of detail and practical guidance. This unique resource will enable them to make practical decisions about the use of the various additives, fillers, and reinforcements specific to this family of materials. ABOUT THE AUTHOR Michael Tolinski is a freelance writer and a lecturer at the University of Michigan's College of Engineering. He is a frequent contributor to *Plastics Engineering and Manufacturing Engineering*. Structured to make it easy for the reader to find solutions for specific property requirements Contains a number of short case studies about companies that have used or developed a particular additive to achieve a desired result Covers environmental resistance, mechanical property enhancement, appearance enhancement, processing aids, and other modifications of form and function

Practical Testing and Evaluation of Plastics - Achim Frick 2019-03-18

Engineering with polymers is a growing technical field which requires special knowledge. Filling a need, this ready reference brings together the hard-to-get and recently acquired knowledge usually only found scattered in the original literature. At the beginning, the reference introduces plastics as a class of technical materials, gives an overview of their properties, presents plastics processing and its possible influence on the achievable quality of plastic parts. Afterwards, plastics testing is presented as a separate, practical-scientific field of work. The possibilities and fields of application of plastics testing will be discussed. This is followed by a comprehensive treatment of the individual, relevant test areas for the characterization and qualification of plastics and plastic molded parts made from them, with descriptions of the corresponding, practical test methods. A comprehensive index provides easy access to relevant information for successful engineering with plastics and suitable methods for material characterization and for quality assurance and damage analysis of parts. Written by experienced academics and industrial researchers and developers who know the

problems of plastics engineers in their daily work - and the solutions - inside out, this book offers first-hand practical knowledge and intensive discussion. The book is aimed at industry, scientists and students involved in plastics and plastic engineering and aims to help them gain the necessary understanding of polymer materials and knowledge of practical testing and evaluation of plastics.

Plastics Additives, Volume 1 - Ernest W. Flick 2013-10-22

This book and its companion volumes contain plastics additives formulations based on information received from numerous industrial companies and other organizations. Each formulation is identified by a description of its end use.

Cosmetic & Toiletry Formulations - Ernest W. Flick 2014-06-28

Cosmetic and Toiletry Formulations, Second Edition, Volume 2, contains more than 1,900 cosmetic and toiletry formulations, based on information received from numerous industrial companies and other organizations. The data represent selections from manufacturers' descriptions made at no cost to, nor influence from, the makers or distributors of these materials. All of the trademarked raw materials listed are believed to be available, which will be of interest to readers concerned with raw material discontinuances. Each formulation in the book is identified by a description of end use. The formulations include the following as available, in the manufacturer's own words: a listing of each raw material contained; the percent by weight of each raw material; suggested formulation procedure; and the formula source, which is the company or organization that supplied the formula.

Lubricant Additives - Leslie R. Rudnick 2017-07-12

This indispensable book describes lubricant additives, their synthesis, chemistry, and mode of action. All important areas of application are covered, detailing which lubricants are needed for a particular application. Laboratory and field performance data for each application is provided and the design of cost-effective, environmentally friendly technologies is fully explored. This edition includes new chapters on chlorohydrocarbons, foaming chemistry and physics, antifoams for nonaqueous lubricants, hydrogenated styrene-diene viscosity modifiers, alkylated aromatics, and the impact of REACH and GHS on the lubricant industry.

Gardner's Chemical Synonyms and Trade Names - William Gardner 1994

**** The standard reference in the field of chemicals for commerce, cited in BCL3 and Sheehy. This extensively revised edition includes some 40,000 trade names and chemicals, of which about 18,000 entries are completely new; 13,500 entries that now contain CAS or EINECS numbers; and nearly 3,000 manufacturers, more than twice the number in the ninth edition. Entries give definitions, classification, chemical formulas/descriptions, functions/applications, and manufacturers.

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BASF Handbook on Basics of Coating Technology - Artur Goldschmidt 2003

The new Handbook on Basics of Coating Technology is a classic reference recently updated with 18 years worth of new technology, standards, and developments in the worldwide coating industry. This is an indispensable reference for anyone in the industry. Whether you are involved in traditional processes or the most innovative, this handbook will be a critical addition to your daily routine. Full of color images, graphs, and figures, the handbook comes complete with standard tables, general classification figures, definitions, and an extensive keyword index. Both engineers and technicians will find the answers they need within its pages. Instead of solving problems "after the fact," this handbook helps avoiding them in the first place, saving time and money. This reference also gives beginners and practically oriented readers a journey through the different coating segments clearly illustrated with lots of pictures. It also outlines the social changes in the industry concerning environmental compatibility and toxicology which have seriously affected product development.

Pressure-Sensitive Formulation - Istvan Benedek 2020-06-07

Growing interest in the formulation of pressure-sensitive adhesives as described in the first edition of this book (*Pressure-Sensitive Formulation*, VSP, 2000) required a new, enlarged edition including the design of pressure-sensitive adhesives as a separate volume.

Developments in the understanding of pressure sensitivity were necessary to use macromolecular chemistry for pressure-sensitive design. Such developments include polymer physics and contact mechanics. Progress in coating technology, especially in in-line coating- and synthesis, opened new ways for the design of pressure-sensitive adhesives and products as well. Actually, pressure-sensitive-products

with and without adhesives compete requiring a broad variety of material formulations and the corresponding manufacturing technology. The first volume of the book examines the theoretical aspects of pressure-sensitive design, based on macromolecular chemistry, macromolecular physics, rheology and contact mechanics. The second volume describes the practical aspects of pressure-sensitive design and formulation, related to product application. The advances in the various domains are described by specialists.

International Pesticide Directory - 1995

Databook of Rheological Additives - Anna Wypych 2022-03-15

Databook of Rheological Additives covers how these additives are commonly applied in a wide range of industries, providing readers with information on over 300 organic and inorganic additives. This information is presented in individual tables for each product, whether commercial or generic. Data is divided into General Information, Physical Properties, Health and Safety, Ecological Properties, Use and Performance. Sections cover their state, odor, color, bulk density, density, specific gravity, relative density, boiling point, melting point, pour point, decomposition temperature, glass transition temperature, refractive index, vapor pressure, vapor density, volume resistivity, relative permittivity, ash content, pH, viscosity, rheological behavior, and more. Other notations include updates on NFPA classification, HMIS classification, OSHA hazard class, UN Risk phrases, UN Safety phrases, UN/NA class, DOT class, ADR/RIC class, ICAO/IATA class, IMDG class, packaging group, shipping name, food approvals, autoignition temperature, self-accelerating decomposition temperature, flash point, TLV ACGIH, NIOSH and OSHA, maximum exposure concentration IDLH, animal testing oral-rat, rabbit-dermal, mouse-oral, guinea pig-dermal, rat-dermal, rat-inhalation, mouse-inhalation, ingestion and skin and eye irritation. Covers how rheological additives are commonly applied in a

wide range of industries Features content divided into five groups: General Information, Physical Properties, Health and Safety, Ecological Properties, and Use and Performance Includes information on name/common name, chemical structure, state, odor, color, boiling/melting points, rheological behavior, OSHA hazard class, ingestion, skin/eye irritation, first aid, carcinogenicity, biodegradation probability, and more

Plastics Additives - G. Pritchard 2012-12-06

Although plastics are extremely successful commercially, they would never reach acceptable performance standards either in properties or processing without the incorporation of additives. With the inclusion of additives, plastics can be used in a variety of areas competing directly with other materials, but there are still many challenges to overcome. Some additives are severely restricted by legislation, others interfere with each other-in short their effectiveness varies with circumstances. *Plastics Additives* explains these issues in an alphabetical format making them easily accessible to readers, enabling them to find specific information on a specific topic. Each additive is the subject of one or more articles, providing a succinct account of each given topic. An international group of experts in additive and polymer science, from many world class companies and institutes, explain the recent rapid changes in additive technology. They cover novel additives (scorch inhibitors, compatibilizers, surface-modified particulates etc.), the established varieties (antioxidants, biocides, antistatic agents, nucleating agents, fillers, fibres, impact modifiers, plasticizers) and many others, the articles also consider environmental concerns, interactions between additives and legislative change. With a quick reference guide and introductory articles that provide the non-specialist and newcomer with relevant information, this reference book is essential reading for anyone concerned with plastics and additives.

McCutcheon's Emulsifiers & Detergents - 2004