

DATABOOK OF Nucleating Agents

Anna & George Wypych



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George Wypych, Anna Wypych



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Databook of Nucleating Agents George Wypych, Anna Wypych, 2016-04-07 Databook of Nucleating Agents gives engineers and materials scientists the information they need to increase the production rate modify structure and morphology and reduce haze of polymeric products with proper selection of nucleating agents and clarifying agents Chemical origin and related properties of nucleating agents are analyzed in general terms to highlight the differences in their properties including the essential theoretical knowledge required for correct selection and use of nucleating and clarifying agents This includes methods of chemical modification of nucleating agents and their deposition on suitable substrates methods and results of dispersion of nucleating agents influence of their concentration and cooling rate on final result and rate of crystallization nucleation efficiency of different products and the reasons behind it and generally accepted mechanisms of nucleation The book also covers application aspects in different formulations Patent literature and research papers are extensively reviewed for different applications and polymer processing methods which require use of nucleating agents are discussed with an emphasis on the intricacies of use of nucleating agents in different polymers and products Enables engineers to use nucleating agents more effectively to increase production rate modify structure and morphology and reduce haze of polymer products Provides the thorough theoretical grounding required for proper selection and use of nucleating and clarifying agents Presents an extensive review of the current applications of nucleating agents in different formulations

Databook of Nucleating Agents George Wypych, Anna Wypych, 2021-01-20 Databook of Nucleating Agents Second Edition gives engineers and materials scientists the information they need to increase the production rate modify structure and morphology and reduce the haze of polymeric products through proper selection of nucleating and clarifying agents Chemical origin and related properties of nucleating agents are analyzed in general terms to highlight the differences in their properties including the essential theoretical knowledge required for correct selection and use of nucleating and clarifying agents This includes methods of chemical modification of nucleating agents and their deposition on suitable substrates methods and results of dispersion of nucleating agents influence of their concentration and cooling rate on final result and rate of crystallization nucleation efficiency of different products and the reasons behind it and generally accepted mechanisms of nucleation The book also covers application aspects in different formulations Patent literature and research papers are extensively reviewed for different applications and polymer processing methods which require the use of nucleating agents are discussed with an emphasis on the intricacies of using nucleating agents in different polymers and products Provides key information for increasing production rates modifying structures and morphologies and reducing haze in polymeric products Analyzes chemical origin and related properties of widely used nucleating agents Includes essential theoretical knowledge required for correct selection and use of nucleating and clarifying agents Outlines methods of chemical modification of nucleating agents and their deposition on suitable substrates

Databook of Rheological

Additives Anna Wypych, George Wypych, 2022-03-15 Rheological additives are commonly applied in a wide range of industries and this databook provides readers with information on over 300 organic and inorganic additives. This information is presented in individual tables for each product, whether commercial or generic. The data are divided into five groups: those being General Information, Physical Properties, Health and Safety, Ecological Properties, and Use Performance. The following information is included in each section: General Information: name, CAS, EC, IUPAC name, common name, common synonyms, acronym, biobased, cellulose functionality, charge, degree of substitution, empirical formula, chemical structure, molecular mass, RTECS number, chemical category, product class, product composition, moisture content, and solids content. Physical Properties: 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, absolute viscosity, surface tension, hydration time, solubility in solvents, solubility in water, the heat of combustion, the heat of decomposition, specific heat, thermal conductivity, Henry's law constant, particle size, and volatility. Health and Safety: 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, skin irritation, eye irritation, inhalation, first aid, eye, skin, and inhalation), carcinogenicity, IARC, NTP, OSHA, ACGIH, and mutagenicity. Ecological Properties: biological oxygen demand, chemical oxygen demand, theoretical oxygen demand, biodegradation probability, aquatic toxicity, algae, Rainbow trout, Sheepshead minnow, Fathead minnow, and Daphnia magna, and partition coefficient. Use Performance: manufacturer, product feature, recommended for polymers, recommended for products, outstanding properties, compatibility, limitations, a typical reason for use, processing methods, the concentration used, storage temperature, and food approval. Provides readers with information on over 300 organic and inorganic additives presented in individual tables for each product. Data featured are divided into five groups: General Information, Physical Properties, Health and Safety, Ecological Properties, and Use Performance. Information highlighted for each additive includes 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, manufacturer, product feature, recommended for polymers, recommended for products, outstanding properties, compatibility, limitations, a typical reason for use, processing methods, storage temperature, and food approval.

[Databook of the Most Important Polymer and Rubber Additives](#) Anna Wypych, George Wypych, 2024-01-04 Databook of the Most Important Polymer and Rubber Additives is a vital reference for anyone working with polymers and rubbers. It provides key information on the properties of the most widely used additives that can be used to alter the physical, chemical, and mechanical properties of

rubbers and plastics Additives are presented by their main chemical component with information for each additive provided in the form of a table divided into 5 sections covering General Information Physical Properties Health and Safety Considerations Ecological Impact and Use and Applications Data provided includes CAS acid base properties odor various cloud points volatility data surface tension thermal conductivity explosion limits carcinogenicity oxygen demands biodegradation probability air pollution data applications in different polymers and products processing requirements and doses food approvals substitutes and more The companion book The Encyclopedia of Polymer and Rubber Additives contains information on the mechanisms of action of each group of additives their suitable features and modifications their effect and interferences in complex formulations and it is illustrated with numerous experimental examples highlighting their performance Provides information on the properties of key additives that can be used to alter the physical chemical and mechanical properties of rubbers and plastics Covers general information physical properties health and safety considerations ecological impact and use and applications Presents additives by their main chemical component discussing anticaking agents antidegradants antifogging agents curatives crosslinkers defoaming agents fillers nucleating agents pigments solvents stabilizers vulcanizing agents and more

Databook of Flame Retardants Anna Wypych, George Wypych, 2021-01-26 Databook of Flame Retardants contains information on commonly used additives broken out into five sections including General Physical Health and Safety Ecological and Use Over one hundred types of data are included for over three hundred and fifty commercial based products All data fields are defined and include a broad range of information such as calcium contents molecular mass brightness freezing melting points viscosity volatility UN NA class autoignition temperature partition coefficient processing methods concentrations used and more This book is best utilized in tandem with the Handbook of Flame Retardants Each book complements the other without repeating information with the other release explaining the role of these products their selection mechanism of action use in different polymers and products and health and commercial issues related to flame retardants Provides key physical health and safety ecological and application data for over 350 commonly used fire retardant additives Covers halogenated inorganic phosphorus intumescent and nitrogen based fire retardants Data listed includes CAS chemical class and name decomposition temperature electrical conductivity IMDG class biodegradation probability product and resin recommendations guidelines for use and more

Databook of Plasticizers Anna Wypych, 2023-02-01 Databook of Plasticizers Third Edition contains data on more than 300 of the most important generic and commercial plasticizers in use today The data comes from a range of sources beyond plasticizers manufacturers allowing for a detailed comparison of properties of different plasticizers Over 100 different data fields are provided from general information such as molecular structure and formula to physical properties health and safety information ecological properties and recommendations regarding appropriate use and performance of each plasticizer This data book is an essential resource for engineers technicians and materials scientists responsible for specifying a plasticizer

The book has been updated to reflect the recent changes in plasticizer approvals for production of various materials including chloroparaffins refined oil derivatives and phalates and also includes data details on a range of new plasticizers that have recently gained market approval It serves as an ideal companion to the Handbook of Plasticizers Enables plastics practitioners to more efficiently select the correct plasticizer for a range of applications Includes 100 data fields for each plasticizer including physical properties health and safety information ecological properties and specific usage recommendations Contains data on the most important plasticizers currently in use both commercial products and the chemical compounds used for the manufacture of plasticizers *Handbook of Nucleating Agents* George

Wypych, 2021-01-26 Handbook of Nucleating Agents Second Edition gives engineers and materials scientists the information they need to increase the production rate modify structure and morphology improve mechanical performance and reduce the haze of polymeric products through proper selection of nucleating agents and or the so called clarifying agents The book analyzes the existing literature paying special attention to recent developments and is divided into 14 chapters each of which concentrates on essential performances of nucleating agents Chemical origin and related properties of nucleating agents are analyzed in general terms to highlight the differences in their properties and the book also provides the most essential theoretical knowledge required for proper selection and use of nucleating and clarifying agents This includes polymer crystallization with and without nucleating agents parameters of crystallization essential influences on the nucleation processes the measures of nucleation efficiency the mechanisms of nucleation and the effective methods of dispersion of nucleating agents Later chapters concentrate on the application aspects in different formulations outlining nineteen polymer processing methods which require use of nucleating agents forty different polymers which are known to use nucleating agents and sixteen applied examples of commercial products with nucleating agents The final three chapters discuss the effects of nucleating agents on physical and mechanical properties of materials the most essential analytical techniques and health and safety in use of nucleating agents Enables engineers to use nucleating agents more effectively to increase production rate modify structure and morphology and reduce haze of polymer products Provides a theoretical grounding required for proper selection and use of nucleating and clarifying agents Offers an extensive review of current applications of nucleating agents in different formulations Includes analysis of the chemical origin and related properties of nucleating agents to highlight differences in their properties

Databook Nucleating Agents Anna Wypych Book Review: Unveiling the Power of Words

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