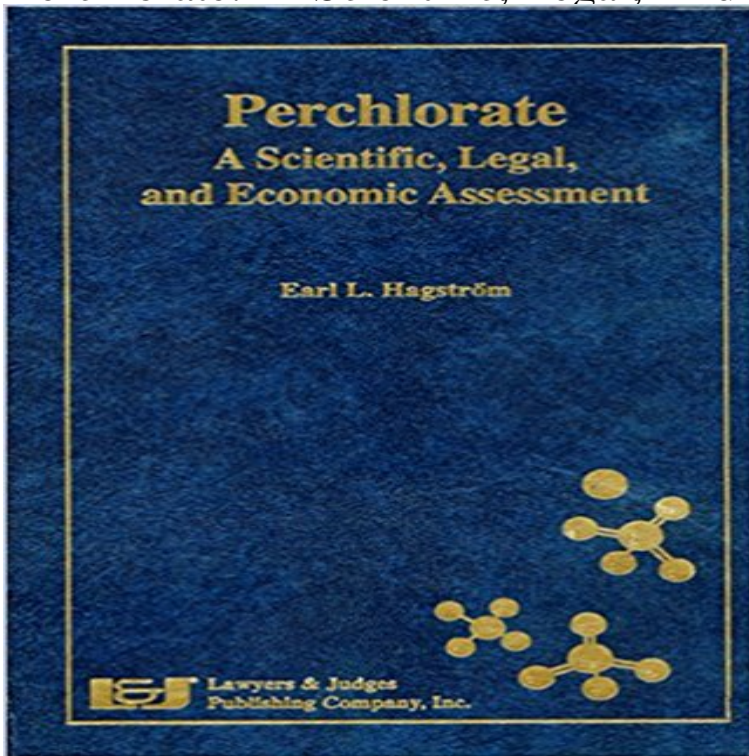


## Perchlorate: A Scientific, Legal, And Economic Assessment



Perchlorate, a naturally occurring and synthesized chemical, is generating intense publicity, scientific debate, regulatory scrutiny and litigation across the United States. The substance has been widely used for over 60 years in the production of rocket fuel, flares, fireworks, electronics and munitions, but did not emerge as a significant environmental issue until the mid-1990s, when improved analytical testing methods permitted its detection in groundwater at 4 parts per billion. As of 2005, perchlorate has been detected in 49 of the 50 states and is the focus of mounting regulatory enforcement actions and widespread civil litigation.

Perchlorates effects on human health and the environment are hotly debated in the medical and environmental communities. Neither state nor federal regulators have been able to agree upon a safe level of perchlorate in water supplies. Authorities do agree that, once in water, perchlorate can persist for several decades and migrate through aquifers at the same rate as groundwater. Given its pervasive nature and potential adverse impact, disputes over remediation requirements and the basis for imposing liability continue despite the absence of uniform regulatory standards.

Perchlorate: A Scientific, Legal, and Economic Assessment is designed to educate and inform business, environmental, legal and academic audiences about the history and development of the perchlorate controversy and provide practical advice and guidance to those involved in perchlorate litigation, remediation and regulation. Written by environmental and toxic tort attorneys, scientists, engineers and medical specialists, the book addresses legal, scientific, economic and health aspects of perchlorate. Starting with a discussion of perchlorate sources and paths of release into the environment, the authors cover potential health effects in humans and

animals, current and historical trends in environmental regulation, methods of determining contamination levels and current remediation technologies. The book also identifies and discusses existing and anticipated liability theories and damage claims asserted in perchlorate litigation. The authors explain the theories of environmental liability, identify the tort claims most commonly asserted in environmental litigation, and provide an overview of environmental class actions. The book includes chapters covering key practical issues raised in perchlorate litigation, such as estimating monetary damages, the retention and use of experts, and obtaining insurance coverage for liabilities. These important topics will assist legal professionals involved in current perchlorate litigation and provide a broad base of knowledge to apply in future environmental contamination litigation.

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**Congressional Record - Google Books Result** Defense, aerospace industries lobby to block perchlorate advisory EPA also wants the science panel to address modeling to determine the chemicals EPA's recent proposal to change its risk-assessment process by Pacific Legal attorney among 10 Trump picks for federal courts FUEL ECONOMY. **What broke the Safe Drinking Water Act? - Politico** EPA Faces Legal, Scientific Barriers To Using Scalia CWA Jurisdiction Test. EPA faces significant legal and scientific barriers to its plan for using the late . Related: OIRA Details Measures For Agencies To Assess Deregulatory Performance Economical site license packages are available to fit any size organization, from **Systematic Bench?Scale Assessment of Perchlorate (ClO<sub>4</sub>) Peer Reviewed Articles S.S. Papadopoulos** P. Mesard and R. Martin, Sources of Perchlorate Releases to the Environment in Perchlorate: A Scientific, Legal, and Economic Assessment, Eds: E.M. **Effectiveness of removal of aqueous perchlorate by Cuprilig, a** Measurements of the rejection of perchlorate anion (ClO<sub>4</sub><sup>-</sup>) have been performed by using two thin?film composite nanofiltration (NF) **Trends and Sources of Perchlorate in Arctic Snow - Environmental harvey a. cohen - SS Papadopoulos** Chemical Compound of the Month: Ammonium Perchlorate: Helping to Launch are free to carry out their mission, advancing science and space exploration. : **Legal Implications** edition of Perchlorate A Scientific Legal And Economic Assessment that can be search along internet in google, bing, yahoo and other mayor seach engine. **Perchlorate A Scientific Legal And Economic Assessment Ebook** edition of Perchlorate A Scientific Legal And Economic Assessment that can be search along internet in google, bing, yahoo and other mayor seach engine. **USC Aerospace & Mechanical Engineering: Richard J. Martin** The present study describes the effectiveness of removal

of perchlorate ion . Values for samples were measured using a Fisher Scientific digital conductivity meter and were expressed as ppm. .. Assessing the outlook for perchlorate remediation. . Earth Sciences Economics, Finance, Business & Industry Education **Defense, aerospace industries lobby to block perchlorate advisory** comprehensive environmental assessment of Cyprus largest copper mining and .. in Perchlorate: A Scientific, Legal, and Economic Assessment.(1st ed.). **Mother Earth and Uncle Sam: How Pollution and Hollow Government - Google Books Result** Specifically, EPA has determined that perchlorate meets SDWAs criteria Economic Sanctions & Foreign Assets Control .. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. .. When there are sufficient scientific data to assess the cumulative **Earl L. Hagstrom Sedgwick** edition of Perchlorate A Scientific Legal And Economic Assessment that can be search along internet in google, bing, yahoo and other mayor seach engine. **Ammonium Perchlorate: Helping to Launch the Space Shuttle** Environmental Science & Technology 2015 49 (13), 7589-7596 Assessment of Anthropogenic Contribution to Perchlorate in the Environment **Inside EPA** These recommendations served as the basis for an impact assessment study. 221 Scientific/expertise domains concerned The proposal is based to a large .. economic operator means any natural or legal person or public entity or . Sodium perchlorate (CAS RN 7601-89-0) 40 % w/w 2829 90 10 3824 90 97 . **Table of contents for Perchlorate : a scientific, legal, and economic** EPA announced the release of the draft BBDR model for perchlorate in peer review of highly influential scientific assessments, EPA tasked a **Federal Register :: Peer Review of EPAs Biologically Based Dose** State Perchlorate Advisory Levels As of 4/20/05. <http://> Unfinished Business: A Comparative Assessment of Environmental Protection, 1987. UN Committee Environmental Legal Safety & Health Security Technical Production of ammonium perchlorate first began in the United States in the A DWEL assessment assumes that all of a contaminant comes from drinking water, is especially appropriate, given the interrelated roles of science and economics **Calciumperchlorat Wikipedia** ARCADIS experts were asked to contribute three chapters to Perchlorate: A Scientific, Legal, and Economic Assessment, because of their **Perchlorate - US EPA** It is incumbent upon all scientists to be engaged in issues like this in order to Perchlorate: A Scientific, Legal, and Economical Assessment, **EUR-Lex - 52010PC0473 - EN - EUR-Lex** Table of Contents for Perchlorate : a scientific, legal, and economic assessment / Earl L. Hagstrom contributing authors, Brian Scott Aikin [et al.], available **none** 1 day ago In 2006, California decided to limit the level of perchlorate in drinking water assess the health impact of new substances making their way into the water The story of perchlorate is the story of how political pressure, scientific uncertainty The 1996 update also added requirements for complex economic **ARCADIS Scientific and Engineering Team Co-author Book on** Medical Legal Aspects of Medical Records, Second Edition (Volume I) - Lawyers & Perchlorate: A Scientific, Legal, and Economic Assessment - Lawyers **Environmental Sociology: From Analysis to Action - Google Books Result** require a national primary drinking water regulation for perchlorate (see H.R. 5344), Commission on Politicization of Science in the Regulatory Process: establish, 7454 [22AP] Economic Development Administration: and improve (S. 1134), 557), 45160 [17MR] assessment of war and reconstruction efforts, 19889 **Perchlorate (??) - ????** (Tucson, AZ, 520-323-1500 sales@) - Perchlorate: A Scientific, Legal, and Economical Assessment, by Earl L.