

## Chlorinated Solvents A Forensic Evaluation

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### Chlorinated Solvents A Forensic Evaluation

A formal definition is the mass of a certain volume of a substance divided by the mass of the same volume of hydrogen at the same temperature and pressure. Vapor density values and relationships to other chlorinated solvents are important in evaluations of the transport of a chlorinated solvent as a vapor.

### Chlorinated Solvents: A Forensic Evaluation by Robert D ...

Concentrating on the five commonly encountered chlorinated solvents (perchloroethylene, trichloroethylene, methyl chloroform, carbon tetrachloride and CFC-113), forensic opportunities applicable to each are presented including the use of stabilizers, manufacturing impurities, surrogate chemicals and physical measurements and degradation products as diagnostic indicators.

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Concentrating on the five commonly encountered chlorinated solvents (perchloroethylene, trichloroethylene, methyl chloroform, carbon tetrachloride and CFC-113), forensic opportunities applicable to each are presented including the use of stabilizers, manufacturing impurities, surrogate chemicals and physical measurements and degradation products as diagnostic indicators.

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Chlorinated Solvents - A Forensic Evaluation Details Environmental forensics is emerging and evolving into a recognized scientific discipline with numerous applications, especially regarding chlorinated solvents.

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Given their frequency of detection in environmental investigations, techniques to age date and identify the origin of chlorinated solvent releases are of great interest in environmental forensic ...

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### Chlorinated solvents : a forensic evaluation

Chlorinated solvents, especially tetrachloroethene (perchloroethylene or PCE), trichloroethylene (TCE), and methyl chloroform (1,1,1-trichloroethane or TCA) are among the most widespread volatile organic compounds (VOCs) detected in soil and groundwater.

### Source Identification and Age Dating of Chlorinated Solvents

Chlorinated Solvents : A Forensic Evaluation by Robert D Morrison and Brian L. Murphy and Robert Morrison Overview - Environmental forensics is emerging and evolving into a recognized scientific discipline with numerous applications, especially regarding chlorinated solvents.

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Figure 3. Dual isotope study of chlorinated solvents (Shoukar-Stash, et.al.) Goldman, et.al. have reported the determination of 3 unique sources of TCE in groundwater samples from an aquifer at the Orion Public Housing Area near Moffett Field Naval Air Station in California, as shown in Figure 4.

### Forensic Investigations Using Compound Specific Isotope ...

Specific application techniques for crude oil & petroleum contaminants, chlorinated solvents, metals, 1,4-dioxane and PFAS; Things to consider when planning a forensic investigation (e.g., analytical methods and laboratories, sampling plan) Part Two: Case studies related to the use of environmental forensic lines of evidence for: Litigation support

### Environmental Forensic Techniques: Principles ...

The most commonly encountered chlorinated solvents in environmental forensic investigations are TCE, TCA, PCE, CT, and MC. Physical and chemical properties of these sol-vents are summarized in Table 12.2.1. The high solubility of most chlorinated solvents is of special interest given their preference to dissolve into soil pore water and groundwater.

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### Front Matter - Chlorinated Solvents (RSC Publishing ...

objective and robust evaluation of natural attenuation. Before natural attenuation can be used in the remedy for contamination of ground water by chlorinated solvents, additional information is required on the three-dimensional flow field of contaminated ground water in the aquifer, and on the physical,

### United States Environmental Protection Agency Technical ...

Skin exposure to the solvent mixture may cause irritation and defatting injury. Chlorinated brake cleaner containing tetrachloroethylene will on exposure to high temperatures (above 500 °F (260 °C)) or strong UV light decompose into phosgene and hydrogen chloride, both of which are dangerous when inhaled.