

# **New Report: Treatment Technologies for 1,4-Dioxane**

**Federal Remediation Technologies Roundtable  
Meeting**

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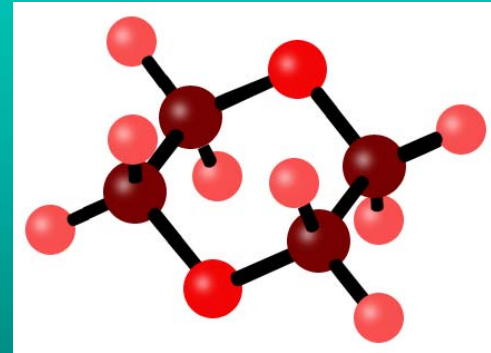
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# Outline

- **Characteristics of 1,4-dioxane**
- **Treatment technologies**
- **Ongoing research**

# Characteristics of 1,4-Dioxane

- $C_4H_8O_2$
- Colorless, flammable liquid
- Hydrophilic; miscible in water
- Migrates rapidly in groundwater
- May be found at sites with 1,1,1-trichloroethane contamination



# Treatment Technologies

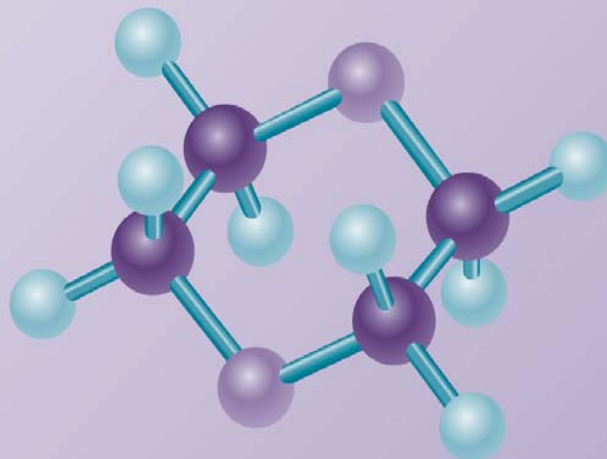
- **Advanced oxidation (*ex situ*)**
  - **Hydrogen peroxide with UV**
  - **Hydrogen peroxide with Ozone**
- **Adsorption (GAC) (*ex situ*)**
- **Bioremediation**

# Ongoing Research

- **Biodegradation**
- **Phytoremediation**
- **Photocatalysis**
- **In-well treatment train**



## Treatment Technologies For 1,4-Dioxane: Fundamentals And Field Applications



<http://clu.in.org/542R06009>

# **For More Information**

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