

Rhodamine-B

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Rhodamine B Latest News

Recently, scientists at Raman Research Institute (RRI) have developed a powerful and cost-effective technique that uses the coffee-stain effect to identify harmful dyes such as Rhodamine B.

About Rhodamine B

- It is a synthetic dye known for its **bright pink colour**.
- **Characteristics:**
 - It is a water-soluble chemical compound.
 - It appears green in powder form; it turns vivid fluorescent pink when it comes in contact with water.

Applications of Rhodamine B

- It is commonly used in industries such as **textiles, paper, and leather**.
- Its application extends to scientific research due to its **fluorescent properties**.

Impacts of Rhodamine B on Human Health

- It can **cause DNA damage, leading to mutations** and potentially triggering cancerous growths.
- Animal research has demonstrated **tumor development** in organs like the liver and bladder following prolonged exposure to the dye.
- In **sensitive individuals**, they can lead to allergic reactions such as itching, redness, and skin thickening.
- Long-term exposure to synthetic dyes like Rhodamine B can result in **chronic allergic reactions** and permanent skin pigmentation changes.
- The chemical is toxic for humans and can cause oxidative stress on cells and tissues if ingested.

Source: DD News

Source: <https://vajiramandravi.com/current-affairs/rhodamine-b/>

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