# Disaster Management · GS - III

**Industrial and transportation accidents involving hazardous materials highlight the need for stronger disaster preparedness. Examine the causes of such accidents and suggest measures to improve safety and emergency response.**

| EXAM YEAR | PAPER | SUBJECT |
|---|---|---|
| DAILY PRACTICE 19/10/2026 | GS - III | Disaster Management |

| MARKS | WORD LIMIT |
|---|---|
| 10 | ~150 words |

## Answer Hint

**Hazardous materials; explosives regulation; industrial safety; transportation compliance; risk assessment; PESO; emergency response; district administration; first responders; accountability.**

## Model Answer

### Introduction

Accidents involving explosives and hazardous materials can cause fatalities, property damage and environmental harm. Effective prevention requires strict regulation, risk assessment and coordinated emergency response.

### Causes and Challenges

**1. Regulatory Non-compliance:** Improper handling, unauthorised transportation or violations of safety conditions may increase accident risks.

**2. Inadequate Risk Assessment:** Unsafe routes, poor vehicle maintenance and inadequate packaging can expose workers and the public to danger.

**3. Weak Monitoring:** Insufficient inspections and poor coordination among enforcement agencies can allow safety violations to continue.

**4. Emergency Preparedness:** Delays in evacuation, firefighting and medical assistance can increase the severity of accidents.

**Measures**

Authorities should enforce applicable explosives laws, strengthen inspections and ensure traceability of hazardous consignments. Transport operators must follow safety requirements and train personnel in emergency procedures.

District disaster management authorities should prepare response plans, identify high-risk locations and conduct regular mock drills. Police, fire services, medical teams and specialised technical agencies must coordinate during emergencies.

**Conclusion**

A preventive safety culture, effective enforcement and rapid emergency response are essential to reduce fatalities and protect communities from hazardous-material accidents.

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