

We are



Hello,

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Process Safety Dispatch

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So What Exactly Exploded? Hybrid Mixtures



In this article, we look at two recent explosions at **Polyethylene** and **Polypropylene**

manufacturing facilities and discuss what happens when flammable gases and powders combine. One of the explosions caused significant plant damage; the other led to the death of 6 workers and injury to 11 others.

The explosion characteristics of hybrid mixtures cannot be readily calculated - and so we undertake **laboratory testing** for our clients so that proper design of explosion protection measures is possible – and adequate explosion prevention measures are in place - to ensure safe manufacturing.

In one case, it was maintenance activity that initiated the explosion. In the other, case it was a discharge of static electricity.

[Read More](#)



Expert Consulting

- Dust Explosion Prevention & Mitigation
- Control of Static Electricity
- Hazardous (Electrical) Area Classification
- Process Hazard Analysis
- Process Safety Management
- Fire and Explosion Hazard Assessment
- Incident Investigation
- Organizational Process Safety Competency Assessment

Specialist Laboratory Testing

- Combustible Dust Testing
- Electrostatic Testing
- Self-Heating / Thermal Instability Testing
- Flammability Testing of Gases & Vapors



Your Dust Hazard Analysis (DHA) Questions Answered



DUST HAZARD ANALYSIS [DHA] WHAT NEXT?

Question 1: I've missed the deadline in NFPA 652 for completing a Dust Hazard Analysis on my facility. What do I do now?

Answer: National Fire Protection Association (NFPA) 652 'Standard on the Fundamentals of Combustible Dust' contains a deadline - **September 7, 2020***. Do you have combustible or explosible dusts? If so, this is the date by which you should have completed a Dust Hazard Analysis (DHA) for your facility or processes.

As process safety specialists, Stonehouse consultants have undertaken many DHAs with or on behalf of our many North American company clients. We've noticed that the phone is still ringing, though, with clients asking for assistance with this work. [Read more...](#)

Question 2: I completed a Dust Hazard Analysis on my facility a few years ago. Is there more I need to do to comply with NFPA 652?

Answer: Absolutely YES! Obtaining a good DHA and then ensuring the action points in the DHA are fully implemented is really just the starting point. [Read more...](#)

If you would like a quote for any of our testing and/or consulting services, please click on the button below. We will get back to you promptly with your proposal.

[REQUEST A QUOTE](#)

Free On Demand Webinars

Combustible Dust Hazards: Assessment, Prevention and Protection Including the Requirements of NFPA 652 [\[watch\]](#)

Electrostatic Hazards in Processing Industry: The Nature of the Problem and

Practical Measures for its Control [\[watch\]](#)

Fire and Explosion Hazards: How to Identify and Control Them in Your Process
[\[watch\]](#)

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