

2023

COMBUSTIBLE DUST INCIDENT REPORT

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TEN KILLED IN GRAIN ELEVATOR EXPLOSION

Paraná, Brazil

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ONE KILLED IN DUST EXPLOSION AT BATTERY MANUFACTURING FACILITY

Skeleftea, Sweden

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**DUST
SAFETY
SCIENCE**

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GOLD PARTNERS



SILVER PARTNERS



ALL OTHER MEMBER COMPANIES



LETTER FROM THE AUTHOR

DR. CHRIS CLONEY

Managing Director, DustEx Research Ltd.



Building a global movement tackling combustible dust...

When we started Dust Safety Science in 2018 our mission was to see at least one year with zero deaths world-wide from combustible dust explosions within 20 years.

But we quickly realized that this can't be done alone...

That is why it warms my heart to see local and regional initiatives springing up tackling combustible dust challenges around the world. I wanted to use the space in this year's letter to recognize just a few of those who are making big differences in this area:

- **PCRS** - A Brazilian group (translation: combustible dust, risks and solutions) of local experts running several initiatives including "Route 27" which is an in person training program to bring combustible dust safety to [all 27 states/federal units in Brazil](#).
- **INDEX** - The Intercontinental Associate of Experts for Industrial Explosion and Fire Safety. International group of companies and experts tackling projects on explosion [safety and combustible dust](#).
- **SafeDustExplosion.org** - Swedish initiative to spread education on [combustible dust safety in this region](#).
- **Dust-Explosion.org** - Ukrainian initiative to spread education on [combustible dust safety in this region](#).
- **Part 6 OHS Regulation Updates in BC** - Extensive regulations on identifying, assessing and addressing combustible dust hazards [in the Province of British Columbia by WorkSafe BC](#).
- **Explosion Research Cooperative** - Industry group led by BakerRisk to run [large scale explosion testing research initiatives](#) important to the members in the US.

In addition to these organizations, I've been privileged to speak with individuals in Slovakia, Vietnam, Indonesia and Argentina this year who are begging to create similar programs in their communities as well.

If you'd like to be connected with any of these individuals and participate in building this global movement, please don't hesitate to reach out - and thank you for the hard work this year.

Stay safe out there,

Chris

P.S. Have feedback on the incident reporting? Email me at chris@dustsafetyscience.com.

"Alone we can do so little; together we can do so much."

- Helen Keller

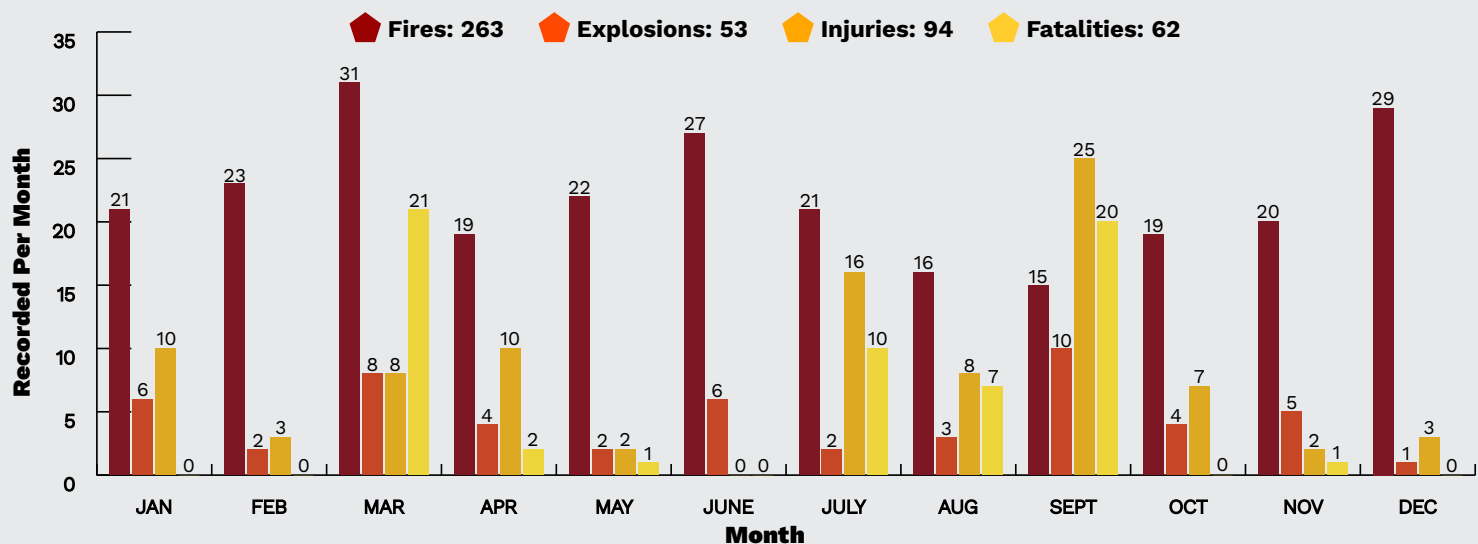
"Coming together is a beginning, staying together is progress, and working together is success."

- Henry Ford

INCIDENT DATA OVERVIEW

	UNITED STATES					CANADA					INTERNATIONAL				
	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023	2019	2020	2021	2022	2023
Fires	175	116	98	79	75	22	14	8	9	14	53	35	57	75	174
Explosions	37	26	19	26	17	1	7	3	0	2	37	27	30	24	34
Injuries	42	35	26	24	21	4	2	9	0	0	72	51	180	65	73
Fatalities	1	1	2	1	0	0	0	3	0	0	7	9	64	48	62

2023 RECORDED INCIDENTS



LOSS HISTORY - UNITED STATES

Loss history from dust explosions in the United States over the last eight years is given in the following table. This data has been collected in the incident database and reported in the 2016 to 2023 combustible dust incident reports.

YEAR	EXP./YEAR	INJ./YEAR	FAT./YEAR
2016	31	22	3
2017	28	43	6
2018	37	30	2
2019	37	27	1
2020	26	23	1
2021	19	19	1
2022	26	21	1
2023	17	16	0
8 year average	27.6	25.1	1.9

This data gives an average of 28 dust explosions per year, 25 injuries and a range from one to six yearly fatalities over the last eight years. Note that dust fires are excluded in this analysis.

2023 GLOBAL LOSS OVERVIEW

In 2023, 66% of the fatalities recorded occurred due to dust explosions. Of the injuries, 86% occurred due to explosions and 14% occurred due to fires. Some of the more severe incidents include:

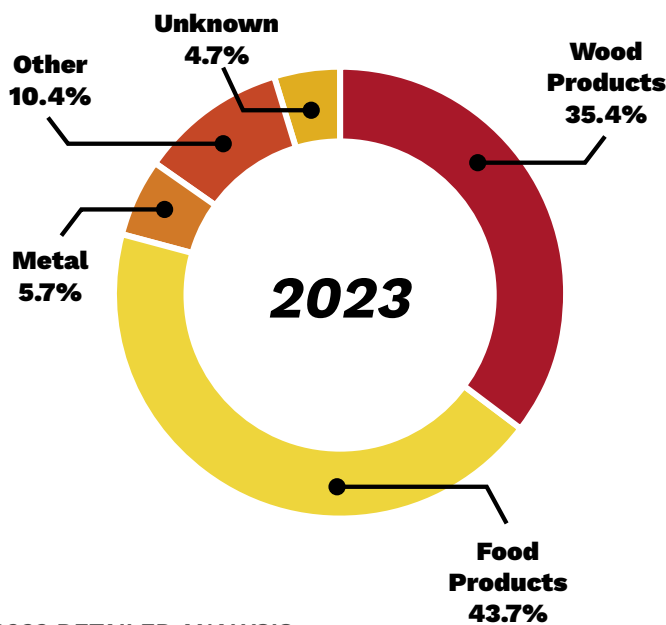
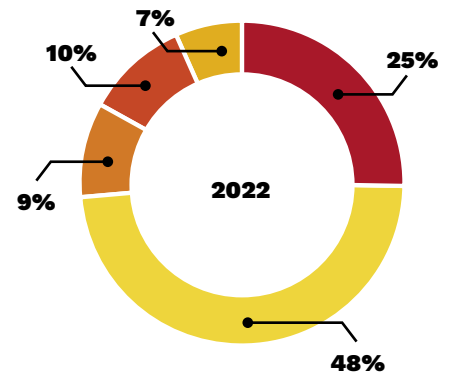
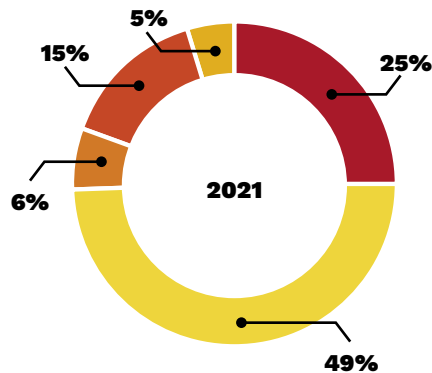
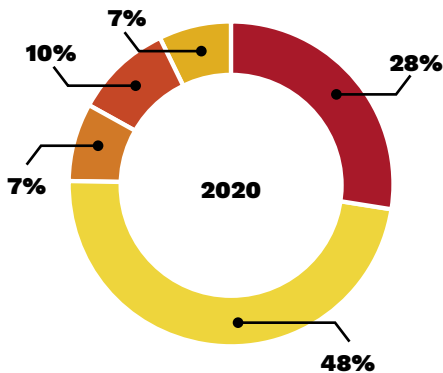
[20 Injured and killed in grain dust explosion](#) (Parana, Brazil)
[Eight injured in grain processing explosion](#) (Decatur, IL)
[One in critical condition from steel dust explosion](#) (Muncie, IN)
[21 killed in coal mine explosion](#) (Sutatausa, Colombia)

Limited information has been available for damages from dust explosions and fires. From the information that is available the following incidents resulted in more than \$1,000,000 in losses:

[\\$10m damages from sewage sludge explosion](#) (Baltimore, MD)
[\\$1.1m damages from wood dust explosion](#) (Wismar, Germany)
[\\$1m € damages in mill explosion](#) (Wallenrod, Germany)

MATERIALS INVOLVED

Wood Products Food Products Metal Other Unknown



2022 DETAILED ANALYSIS

Wood	33.2%	Plastic	2.5%
Food	43.7%	Textile	0.3%
Metal	5.7%	Other	4.1%
Coal	3.5%	Unknown	4.7%
Paper	2.2%		

DISCUSSION POINTS

From the global incident data, food and wood products made up 79% of the fires and explosions recorded, 76% of the injuries and 24% of the fatalities. The largest-loss agricultural disaster was a grain dust explosion in Brazil that killed 10 and injured 10 more.

Coal was the most deadly material this year, accounting for 68% of this year's fatalities, despite accounting for only 3.5% of the recorded incidents. This is largely due to a tragic mine explosion in Sutatausa, Columbia and fires in Panguan, China and Karaganda, Kazakhstan. A breakdown of the fires, explosions, injuries and fatalities for each type of material is given as follows:

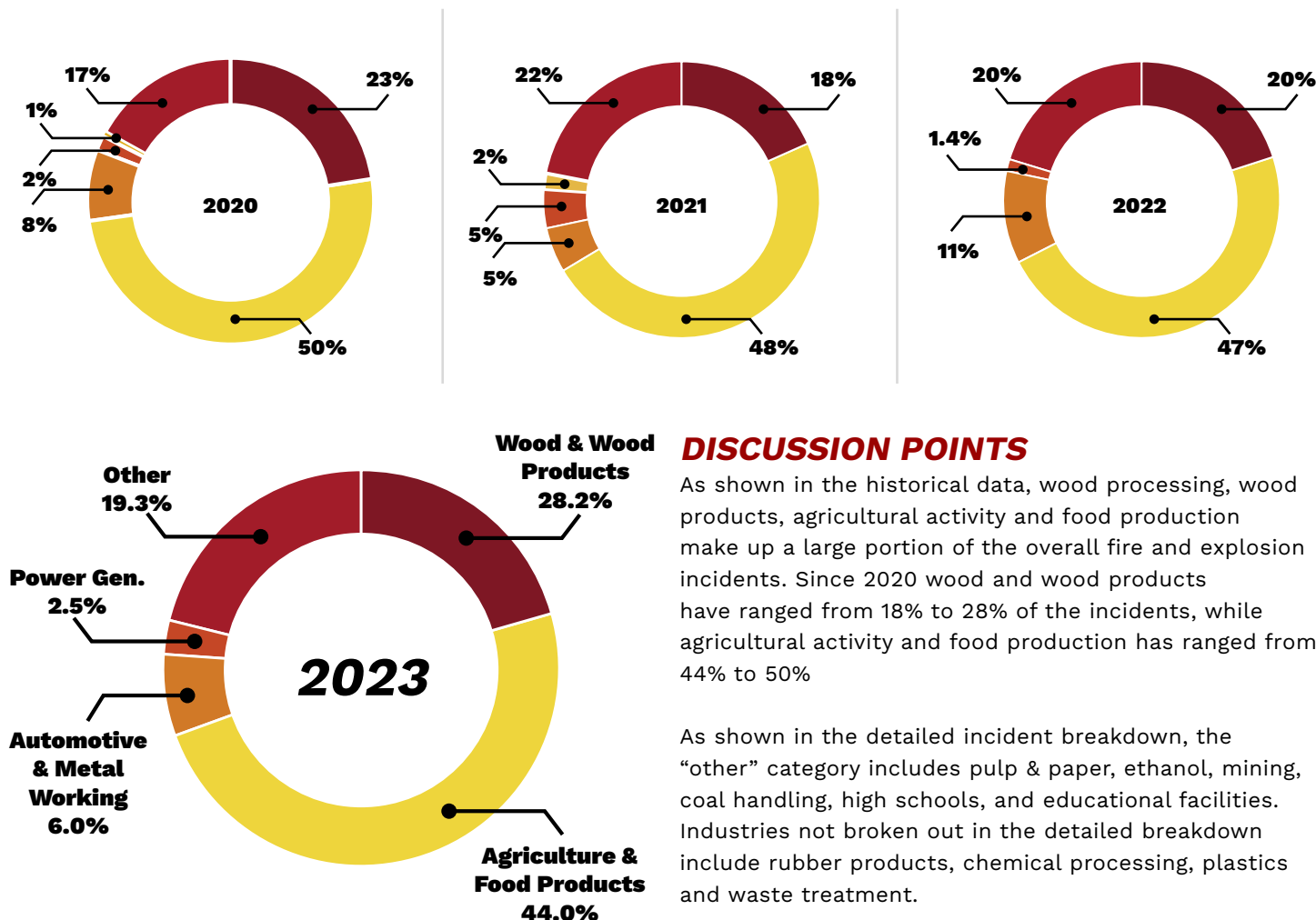
	FIRES	EXP.	INJ.	FAT.
WOOD	93	12	12	1
FOOD	115	23	58	14
METAL	13	5	19	4
COAL	7	4	1	42
PAPER	7	0	1	0
PLASTIC	6	2	0	0
TEXTILE	1	0	0	0
OTHER	10	3	2	0
UNKNOWN	11	4	1	1
TOTAL	263	53	94	62

Fatal explosions involving metal this year included an aluminum melting furnace in Brazil, and an explosion during a 3D printing dust collector filter exchange in Shanghai, China. A paper products facility fire in Washington and a coal dust explosion in West Virginia contributed one injury each.

Under the category "unknown" and "other", 4 injuries and one fatality resulted from one explosion at a battery manufacturing plant in Sweden and three fires in a laundry facility, tire manufacturing facility and storage silo fire, respectively.

INDUSTRIES INVOLVED

◆ Wood & Wood Products
 ◆ Agriculture & Food Products
 ◆ Automotive & Metal Working
 ◆ Power Generation
 ◆ Mining
 ◆ Other



DISCUSSION POINTS

As shown in the historical data, wood processing, wood products, agricultural activity and food production make up a large portion of the overall fire and explosion incidents. Since 2020 wood and wood products have ranged from 18% to 28% of the incidents, while agricultural activity and food production has ranged from 44% to 50%

As shown in the detailed incident breakdown, the “other” category includes pulp & paper, ethanol, mining, coal handling, high schools, and educational facilities. Industries not broken out in the detailed breakdown include rubber products, chemical processing, plastics and waste treatment.

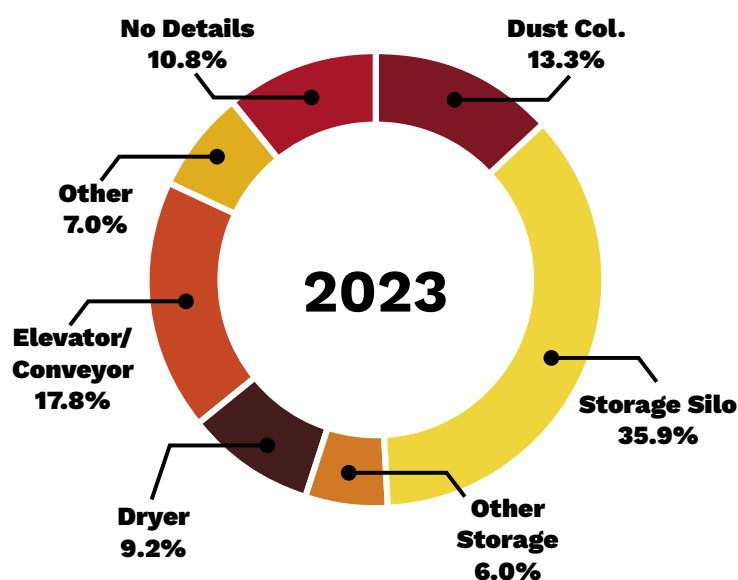
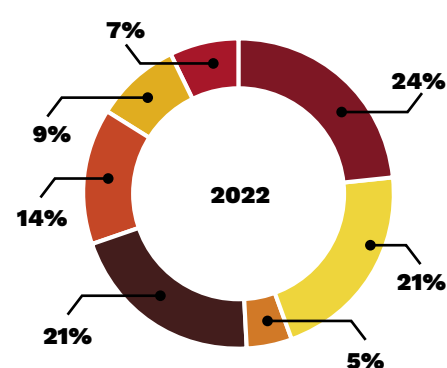
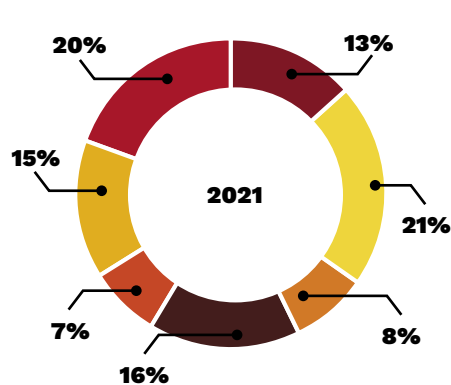
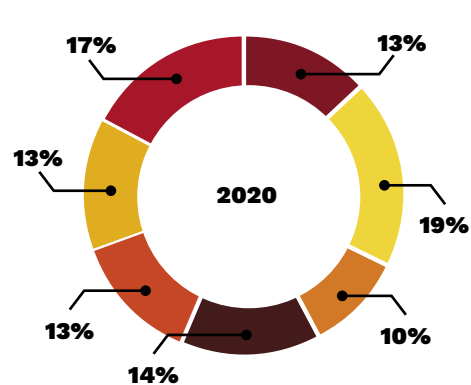
2022 DETAILED ANALYSIS

Wood & Wood Pro.	28.2%	Coal Handling	1.9%
Agriculture	31.6%	Automotive	0.9%
Food Processing	12.3%	Schools and Edu.	0.9%
Metal Working	5.1%	Mining	0.6%
Pulp & Paper	3.5%	Ethanol	0.3%
Power Generation	2.5%	Other	12.0%

In 2023, mining and industries handling coal made up 68% of the fatalities. Agriculture and food processing made up 62% of the injuries and 22% of the fatalities. Automotive and metalworking made up 18% of the injuries and 3% of the fatalities, while wood & wood products industries made up 11% of the injuries and 2% of the fatalities.

EQUIPMENT & CAUSES

■ Dust Collector
 ■ Storage Silo
 ■ Other Storage
 ■ Dryer
 ■ Elevator/Conveyor
 ■ Other
 ■ No Details



Germany that injured two. A full breakdown of fires, explosions, and loss can be seen in the table below:

	FIRES	EXP.	INJ.	FAT.
DUST COLLECTOR	39	3	8	2
STORAGE SILO	93	20	35	12
OTHER STORAGE	17	2	1	0
DRYER	52	4	6	21
ELEV./CONV.	24	5	9	0
OTHER	17	5	16	2
NO DETAILS	21	13	19	25
TOTAL	263	53	94	62

Of the incidents where the equipment is known, 21 fatalities came from elevators/conveyors, 10 from storage silos, two from dust collectors and two from an aluminum melting furnace explosion. The 21 fatalities from conveyor belt systems are attributed to two coal mine fires in Panguan, China and Karaganda, Kazakhstan, respectively.

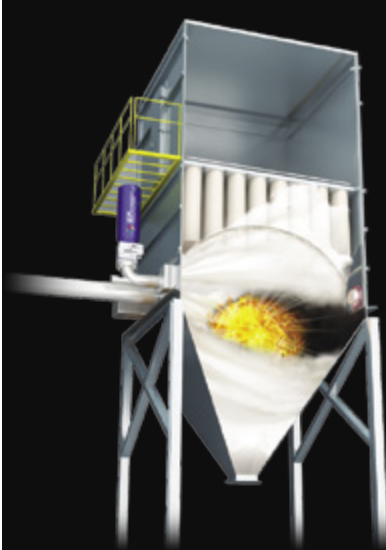
Incidents where no details were provided for the equipment made up only 11% of the total reported. However, these incidents made up 20% of the reported injuries and 40% of the reported fatalities. These incidents included a coal dust explosion in a mine in Columbia, a sugar facility explosion in Tanzania, a housing materials facility explosion in Japan, a battery manufacturer explosion in Sweden, a grain dust explosion in Decatur, Illinois and a sawdust explosion at a molding manufacturer in the UK.

DISCUSSION POINTS

In 2023, storage silos demonstrated the highest percentage (36%) of combustible dust incidents with 93 fires and 20 explosions reported. Dryers and dust collectors were the next biggest sources of incidents, accounting for 18% and 13% each.

Only three dust collector explosions were recorded in 2023 compared to 10 in 2022. These included a flash fire which occurred during a filter change at a 3D printing facility in Shanghai that killed two workers and injured two more, and a dust collector explosion in Wismar,

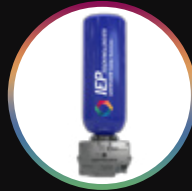
PROTECT YOUR PROCESS AGAINST EXPLOSIONS



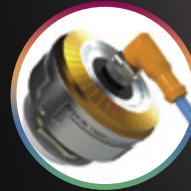
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2023 OSHA CITATIONS

ISSUE DATE	INDUSTRIAL ACTIVITY	STATE	VIOLATIONS	INT. PEN.	CUR. PEN.	INSPECTION	STATUS	CITATION LINK
Dec 15	All Other Miscellaneous Wood Product Manufacturing	WI	4	\$45,915	\$17,532	1683060.015	Open	More Info
Dec 13	Showcase, Partition, Shelving, and Locker Manufacturing	NJ	20	\$139,736	\$139,736	1677266.015	Open	More Info
Nov 13	Recyclable Material Merchant Wholesalers	NY	5	\$73,662	\$51,563	1670582.015	Open	More Info
Nov 8	All Other Miscellaneous Chemical Product and Preparation Manufacturing	NJ	8	\$112,904	\$61,000	1671054.015	Open	More Info
Nov 1	Pharmaceutical Preparation Manufacturing	MA	11	\$298,254	\$298,254	1667708.015	Open	More Info
Oct 25	Other Millwork (including Flooring)	NA	1	\$4,465	\$1,000	1680553.015	Open	More Info
Oct 20	Landscaping Services	ME	5	\$19,424	\$5,000	1690805.015	Open	More Info
Oct 18	Wood Kitchen Cabinet and Countertop Manufacturing	NY	8	\$49,999	\$20,893	1665686.015	Open	More Info
Oct 17	Soybean and Other Oilseed Processing	IL	4	\$324,796	\$324,796	1664999.015	Open	More Info
Oct 11	Metal Service Centers and Other Metal Merchant Wholesalers	MA	1	\$4,688	0	1665983.015	Open	More Info
Sep 29	All Other Plastics Product Manufacturing	PA	7	\$31,475	\$12,250	1675814.015	Open	More Info
Sep 14	Iron and Steel Mills and Ferroalloy Manufacturing	PA	1	\$31,250	\$15,625	1666862.015	Closed	More Info
Sep 8	Major Household Appliance	WI	4	\$48,218	\$48,218	1658799.015	Open	More Info
Sep 7	Burial Casket Manufacturing	MA	4	\$13,393	\$6,250	1657692.015	Open	More Info
Aug 31	Sanitary Paper Product Manufacturing	PA	5	\$34,376	\$17,000	1661392.015	Open	More Info
Aug 31	Gypsum Product Manufacturing	PA	4	\$36,834	\$24,000	1665500.015	Open	More Info
Aug 28	Showcase, Partition, Shelving, and Locker Manufacturing	GA	5	\$40,626	\$24,000	1656517.015	Open	More Info
Aug 21	All Other Plastics Product Manufacturing	PA	1	\$8,539	\$4,000	1672583.015	Open	More Info
Aug 16	Other Animal Food Manufacturing	AZ	4	\$31,250	\$11,688	1667698.015	Closed	More Info
Jul 26	All Other Miscellaneous Wood Product Manufacturing	WI	7	\$30,807	\$30,807	1649183.015	Open	More Info
Jul 26	Spring Manufacturing	PA	3	\$51,344	\$31,250	1647763.015	Open	More Info
Jul 21	Sign Manufacturing	NY	1	\$7,813	\$6,563	1645809.015	Open	More Info

OSHA citations continued onto the next page.

2023 OSHA CITATIONS CONTINUED

ISSUE DATE	INDUSTRIAL ACTIVITY	STATE	VIOLATIONS	INT. PEN.	CUR. PEN.	INSPECTION	STATUS	CITATION LINK
Jul 7	Electroplating, Plating, Polishing, Anodizing, and Coloring	RI	4	\$40,627	\$40,627	1643242.015	Open	More Info
Jun 16	Wood Kitchen Cabinet and Countertop Manufacturing	NJ	13	\$64,738	\$64,738	1640211.015	Open	More Info
Jun 12	General Warehousing and Storage	NJ	7	\$56,719	\$56,719	1639563.015	Open	More Info
Jun 5	Wood Container and Pallet Manufacturing	NY	3	\$17,188	\$17,188	1638437.015	Open	More Info
May 30	Other Millwork (including Flooring)	NJ	2	\$8,930	\$4,465	1636469.015	Open	More Info
May 18	Wood Kitchen Cabinet and Countertop Manufacturing	PA	4	\$48,328	\$38,000	1642802.015	Closed	More Info
May 1	Commercial Bakeries	NJ	6	\$84,218	\$84,218	1634252.015	Closed	More Info
Apr 20	All Other Miscellaneous Wood Product Manufacturing	MA	7	\$29,844	\$12,500	1632229.015	Closed	More Info
Apr 12	Remediation Services	OH	2	\$15,180	\$8,840	1629191.015	Closed	More Info
Mar 31	Wood Container and Pallet Manufacturing	AL	2	\$9,563	\$5,977	1628649.015	Closed	More Info
Mar 29	Sanitary Paper Product Manufacturing	WI	3	\$29,020	\$29,020	1637182.015	Open	More Info
Mar 22	Flavoring Syrup and Concentrate Manufacturing	WI	1	\$15,625	0	1626170.015	Closed	More Info
Mar 20	Plastics Material and Resin Manufacturing	MA	11	\$147,777	\$100,000	1630323.015	Open	More Info
Mar 16	Other Millwork (including Flooring)	OH	3	\$28,128	\$9,041	1627490.015	Open	More Info
Feb 27	Musical Instrument Manufacturing	IL	5	\$13,000	\$8,501	1619919.015	Open	More Info
Feb 27	Custom Architectural Woodwork and Millwork Manufacturing	IL	6	\$22,925	\$15,000	1622432.015	Open	More Info
Feb 6	All Other Rubber Product Manufacturing	CT	20	\$111,644	\$66,700	1619294.015	Closed	More Info
Jan 27	All Other Miscellaneous Chemical Product and Preparation Manufacturing	NY	1	\$6,250	\$4,688	1628678.015	Closed	More Info
Jan 24	Medicinal and Botanical Manufacturing	IL	3	\$30,138	\$15,500	1614344.015	Closed	More Info
Jan 20	Testing Laboratories	NY	14	\$43,622	\$26,173	1622892.015	Open	More Info

Inspections Resulting In Citations: 42
Total Citations: 230

Total Initial Penalties: \$2,263,232
Total Current Penalties: \$1,759,320

Initial Penalty/Citation: \$9,840
Initial Penalty/Inspection: \$53,886

*Information was collected from OSHA Data & Statistics by searching for “dust” within inspection details from citations made using the General Dusty Clause.

Is Your Facility at Risk for Dust Hazards?

Combustible dust explosions are one of the most under-recognized hazards. Without proper awareness and planning, the risk of an incident can threaten life safety, operational continuity, and regulatory compliance. Our team of engineers and specialists have the experience to help you better understand your risk, develop and optimize mitigation strategies, and provide training to prevent potential combustible dust explosions.



Scan to learn more about how we help our clients reduce their risks and identify safeguards for combustible dust hazards for all facility types.



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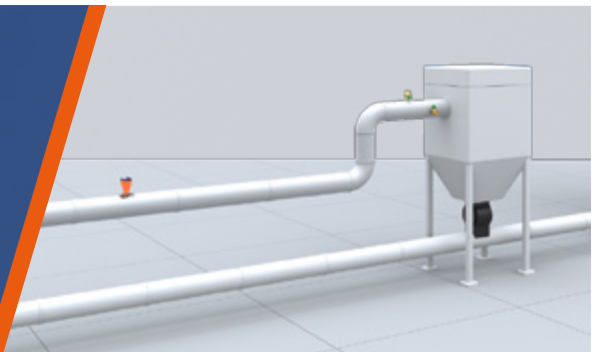
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GRAIN DUST EXPLOSION AT GRAIN ELEVATOR IN PARANÁ, BRAZIL

JULY 27, 2023

Ten Killed and Ten Injured

BACKGROUND

The company involved operates in various sectors within Brazil including grains, poultry, swine, and dairy production, as well as other agro-industrial activities.

INCIDENT DESCRIPTION

On July 27, 2023, local news reported a series of explosions at an agricultural cooperative in Palotina, Brazil.

A series of explosions at a grain silo at the cooperative led to the death of at least eight individuals, with one person missing and 11 others injured. Videos circulating on social and traditional media displayed a massive column of white smoke emanating from the location. Residents of Palotina experienced a tremor, with windows in multiple residences shattered by the force of the blast.

A spokesman for the Parana fire brigade explained that the disaster involved a series of explosions, stating, “There was an explosion in one of the silos that triggered a second and a third.”

OUTCOME

This incident has led to increased activity involving combustible dust in Brazil including discussion of regulations and the formulation of the [PCRS group](#) to educate various organizations in the country.

Incident Database: [Ten Workers Killed and ten Injured in Silo Explosions at Agribusiness](#)

The Fike logo is displayed in white, bold, sans-serif font.

DUST TESTING

Stop Wondering, Take Action on Your Combustible Dust

Because knowing the combustible properties of your dust is the first step toward avoiding a devastating dust explosion.

A photograph of industrial dust testing equipment, showing a large metal vessel with its lid open, emitting a thick cloud of white dust. The background is dark and industrial.

GET DUST TESTING HELP

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GOT DUST?

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METAL DUST EXPLOSION AT 3D PRINTER PLANT IN SHANGHAI, CHINA

SEPTEMBER 14, 2023

Two Killed and Two Injured

BACKGROUND

The company involved is a laser powder bed fusion technology developer and additive machine manufacturer.

INCIDENT DESCRIPTION

On September 19, 2023, local news reported an explosion at a 3D printing company in Shanghai, China.

At 11:32 a.m., while workers were in the process of swapping the filter of the cartridge dust collector, the initial deflagration occurred. It was reported that the workers sprayed tap water on the dust collector's filter element, which generated hydrogen from the aluminum alloy dust which ignited. No one was injured in this first explosion.

However, at 2:02 pm, upon relocating the dust collector outdoors, workers believed they sensed high-temperature smoke emanating from the filter. When water was poured directly onto the filter element, a reaction ensued due to the high temperature, leading to spontaneous combustion and dust emission. This rapid reaction caused the ensuing deflagration, which fatality injured two workers and caused burns to two more.

OUTCOME

Two workers were killed in the second explosion and two others seriously injured with burn injuries covering 90% and 70% of their bodies respectively.

Incident Database: [Two Workers Killed and Two Injured in Explosion at 3D Printer Plant](#)



Are You Compliant with Combustible Dust Rules?

Combustible Dust Hazard Analysis
Dust Sampling and Analysis
Hazardous (Classified) Location Determination
NFPA and OSHA Compliance Review
Safe System Design
Training

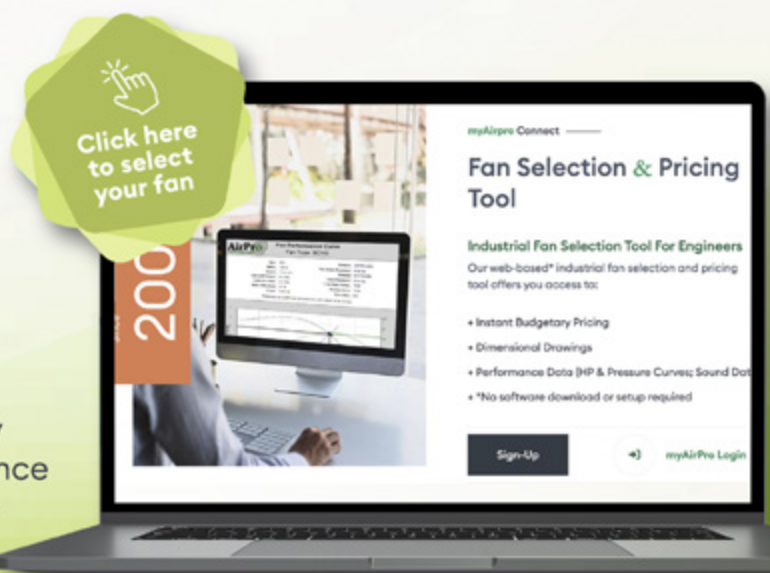
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DUST EXPLOSION AT BATTERY MANUFACTURING FACILITY IN SKELLEFTEA, SWEDEN

NOVEMBER 4, 2023

One killed

BACKGROUND

The company involved is a Swedish battery developer, specializing in lithium-ion technology for electric vehicles.

INCIDENT DESCRIPTION

On December 20, 2023 a local industry magazine reported that a worker had died from an explosion at a battery gigafactory in Skelleftea, northern Sweden.

A quote from the organizations director of communications stated: “Formal investigations are underway to determine precisely what led to the accident in November, but our current understanding is that we had a dust explosion in a machine that is not directly a part of the battery manufacturing process.”

OUTCOME

One employee was involved in the explosion incident. He died several weeks later in the hospital due to burn injuries sustained during the explosion.

Incident Database: [Battery factory accidents kill 2 people, injure 1 in Sweden](#)

DUST EXPLOSION AT GRAIN PROCESSING FACILITY IN DECATUR, ILLINOIS

SEPTEMBER 10, 2023

Eight Injured

BACKGROUND

The company involved is one of the world's largest agricultural producers with operations in more than 170 countries around the world.

INCIDENT DESCRIPTION

On September 10, 2023 local news reported an explosion at a grain processing plant in Decatur, Illinois.

The explosion occurred at the East Plant at 7:11 p.m. Nearby residents reported feeling the impact. One man said that it rattled his house. When he stepped outside, he saw smoke filling the skyline. The company promptly contacted the Decatur Fire Department. Upon their arrival, firefighters found numerous injured workers and considerable damage to several buildings. Debris was scattered over a wide area, with fires raging in a 10-story building.

It has been reported that the facility involved had experienced at least three dust explosions since 2018 and multiple fires at the site.

OUTCOME

Eight employees suffered injuries and were taken to local hospitals. Six were transported from the scene by ambulance. Five of them remained hospitalized. One suffered second- and third-degree burns and was later transported to a trauma burn unit.

Incident Database: [Eight Employees Injured in Explosion at Grain Processing Facility](#)

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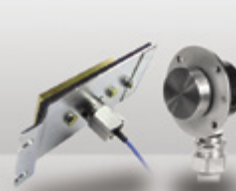
HAZARD MONITORING



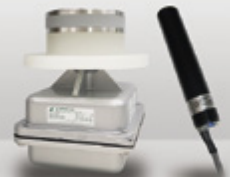
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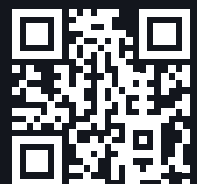


PLUG CONDITION

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Phone: +49 2961 7405-0
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REMBE® is a specialist in explosion safety and pressure relief. As an independent German company, they supply safety systems for industrial plants. REMBE takes a comprehensive approach, primarily developing its own products and providing consultancy and engineering services to customers around the world.

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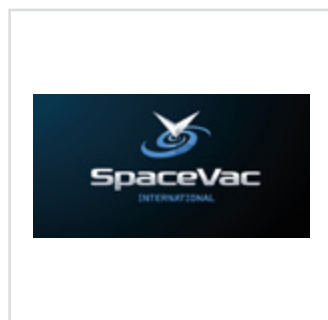

Robovent Solutions Group, Inc.

52029 Sierra Drive Chesterfield,
Michigan 48047

Phone: 1-888-ROBOVENT
Email: frank.cea@robovent.com



RoboVent, part of the Nederman family of air filtration companies, is a leader in industrial dust collection and combustible dust mitigation. They offer turnkey solutions for facility testing, equipment design and engineering, project management and installation, preventive maintenance and repair. For more information, visit www.RoboVent.com.

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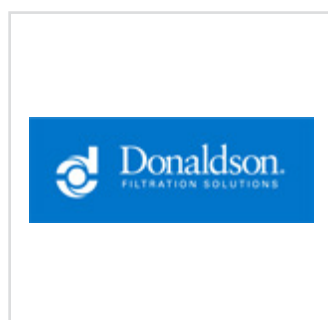
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CV Technology specializes in explosion protection solutions for the prevention and mitigation of explosion hazards related to combustible dust. Located in Jupiter, Florida, CV Technology manufactures various explosion mitigation products including explosion vents, isolation valves, flameless vents, and chemical suppression equipment.

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Nederman Corporation

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Nederman is an environmental technology company and global leader in industrial air filtration dedicated to extracting, transporting and cleaning air to make industrial production more efficient, safe and sustainable. We monitor and optimize performance and validate emissions compliance to protect people, planet and production.

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Boss Products LLC

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Schertz, TX 78154

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Beginning in 2012, Boss Products formed with the intent to become the world's leading supplier of fire & explosion protection solutions serving industrial dust collection and related process industries. We are ISO-9001 certified as well as own and operate a UL508A & UL698A industrial control panel shop to provide a range of fire and explosion protection solutions.

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The GreCon spark extinguishing system is used for preventive fire protection. A spark extinguishing system can detect and eliminate ignition sources before a fire or dust explosion occurs. These systems can be used in filter components, conveyor belts and many other parts of production facilities.

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Case Study: Food Industry Explosion Protection

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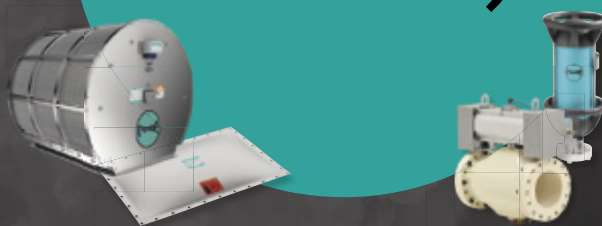
Left in the Dust Case Study: Comparing the Effectiveness of Industrial Vacs vs. Shop Vacs

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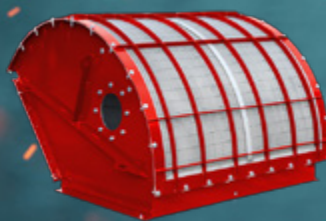


Founded in 2012 and located near San Antonio, Texas, Boss Products is a top supplier of fire & explosion protection solutions for industrial dust collection and related sectors. Their Raptor Series® product line and cutting-edge electronics manufacturing exemplifies their commitment to safety.

Combustible Dust Mitigation Solutions



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WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Feb 8	R-Y Timber	Livingston, MT	Fire	Wood Dust	0	0	Unknown	No Details	
Feb 24	Park Falls Hardwoods	Park Falls, WI	Fire	Wood Dust	0	0	Unknown	No Details	
Apr 24	Hood Industries, Inc.	Bogalusa, LA	Fire	Wood Dust	0	0	Unknown	No Details	
Jun 23	Freres Engineered Wood	Lyons, OR	Fire	Wood Dust	0	0	Storage Silo	No Details	
Jun 28	Millworks	Pekin, IL	Fire	Wood Dust	0	0	Dust Collector	No Details	
Jul 20	SBS One Source	Brewster, MA	Fire	Wood Dust	0	0	Dust Collector	No Details	
Aug 10	Douglas County Forest Products	Roseburg, OR	Fire	Wood Dust	0	0	Baghouse	No Details	
Aug 24	Shetler Lumber Company	Waterford, PA	Fire	Wood Dust	0	0	Sawdust Hopper	No Details	
Sep 8	StairSupplies	Goshen, IN	Fire	Wood Dust	0	0	Dust Collector	No Details	
Sep 21	Kingfield Wood Products	Kingfield, ME	Fire	Wood Dust	0	0	Bag House	No Details	
Sep 25	Weyerhaeuser	Buckhannon, WV	Fire	Wood Dust	0	0	Wood Dryer	No Details	
Oct 26	Unknown	Marshall, MN	Fire	Wood Dust	0	0	Dust Collector	No Details	

INCIDENT SUMMARY - INCIDENTS: 12 | FIRES: 12 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0

AGRICULTURE

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jan 3	Innovative Ag Services Co-op	Garden City, IA	Fire	Grain Dust	0	0	Grain Elevator	No Details	
Dec 15	Laughery Valley Ag Co-op	Dillsboro, IN	Fire	Grain Dust	0	0	Unknown	No Details	
Feb 4	Grundman Farm	Osakis, MN	Explosion	Grain Dust	1	0	Grain Silo	No Details	
Feb 27	Pike Feeds	Pittsfield, IL	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 1	Perdue Farms	Chesapeake, VA	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 2	ADM	Cedar Rapids, IA	Explosion	Grain Dust	0	0	Grain Elevator	No Details	
Mar 14	Gateway FS Inc.	Waltonville, IL	Fire	Grain Dust	0	0	Grain Bin	No Details	
Mar 24	Hoffman Co-Op Grain Association	Hoffman, MN	Explosion	Grain Dust	0	0	Grain Elevator	No Details	
Mar 25	(9.48 pt)	Danville, IL	Fire	Grain Dust	0	0	Dust Collector	\$75,000	
Apr 6	Unknown	New Salem, ND	Fire	Grain Dust	0	0	Grain Bin	No Details	
Apr 16	Jennie-O Turkey Store	Barron, WI	Fire	Grain Dust	0	0	Dust Collector	No Details	
Apr 21	Archer Daniels Midland	Decatur, IL	Explosion	Grain Dust	3	0	Grain Elevator	No Details	
Jul 6	Dakota Mill & Grain	Rapid City, SD	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Jul 7	Unknown	Forestville, WI	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Aug 15	Randall Brothers	Highland, OH	Fire	Grain Dust	0	0	Grain Bin	No Details	
Sep 1	Darling Ingredients Inc.	Clinton, IA	Explosion	Bone Meal	0	0	Storage Silo	No Details	
Sep 10	Archer Daniels Midland	Decatur, IL	Explosion	Grain Dust	8	0	Unknown	No Details	

AGRICULTURE CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Sep 17	Unknown	Cedar Rapids, IA	Fire	Grain Dust	0	0	Grain Bin	No Details	
Sep 21	Andersons Grain Elevator	Delphi, Indiana	Explosion	Corn Cob Dust	0	0	Grain Bin	No Details	
Sep 25	Primient	Decatur, IL	Explosion	Grain Dust	0	0	Grain Silo	No Details	
Oct 3	Unknown	Eden, WI	Fire	Grain Dust	0	0	Grain Silo	No Details	
Oct 5	Unknown	Hartley, IA	Fire	Grain Dust	0	0	Combine Harvester	No Details	
Oct 25	Unknown	Merna, NE	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Nov 3	Unknown	Greene County, OH	Fire	Grain Dust	0	0	Grain Silo	No Details	
Nov 7	Unknown	Monroe Center, IL	Fire	Grain Dust	0	0	Grain Bin	No Details	
Nov 9	ADM Milling Company	Spokane, WA	Fire	Grain Dust	0	0	Dust Collector	No Details	
Nov 13	Farmers Elevator Co	Fergus Falls, MN	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Nov 17	Ernst Conservation Seeds	Meadville, PA	Fire	Seed Dust	0	0	Seed Dryer	\$45,000	
Nov 22	Chandler Feed Company	Chandler, MN	Explosion	Grain Dust	1		Grain Elevator	No Details	
Dec 3	ADM Kershaw	Kershaw, SC	Fire	Grain Dust	0	0	Aspiration System	No Details	
Dec 8	Hansen-Mueller	Houston, TX	Fire	Grain Dust	0	0	Storage Silo	No Details	
Dec 21	Lathrop FSG	Lathrop, MO	Fire	Grain Dust	0	0	Grain Bin	No Details	

INCIDENT SUMMARY - INCIDENTS: 32 | FIRES: 23 | EXPLOSIONS: 9 | INJURIES: 13 | FATALITIES: 0

AUTOMOTIVE & METAL WORKING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Mar 17	Dicastal Inc.	Greenville, MI	Explosion	Aluminum Dust	1	0	Grinder	No Details	
May 22	Modern Advanced Manufacturing	Rockford, IL	Fire	Metal Dust	0	0	Dust Collector	\$3,000	
May 24	HTT World Stamping	Sheboygan, WI	Fire	Metal Dust	0	0	Dust Collector	No Details	
Jun 10	Novalis	Berea, KY	Fire	Aluminum Rolling and Recycling	0	0	Unknown	No Details	
Jun 19	Sparta Metal Processing	Sparta, TN	Fire	Metal Dust	0	0	Storage Silo	No Details	
Aug 11	All Steel Carports	Muncie, IN	Explosion	Metal Dust	1	0	Unknown	No Details	
Sep 1	Western Steel	Colorado Springs, CO	Fire	Metal Dust	0	0	Dust Collector	No Details	
Oct 12	DMAX Ltd.	Moraine, OH	Explosion	Metal Dust	0	0	Smoke Extractor	No Details	
Nov 21	Valmont Gearbox	Waverly, NE	Fire	Metal Dust	0	0	Dust Collector	No Details	
Dec 15	Dicastal North America	Greenville, MI	Fire	Meta Dust	0	0	Dust Collector	No Details	
Dec 22	Continental Tire	Mount Vernon, IL	Fire	Rubber Dust	0	0	Dust Collector	No Details	

INCIDENT SUMMARY - INCIDENTS: 11 | FIRES: 8 | EXPLOSIONS: 3 | INJURIES: 2 | FATALITIES: 0

FOOD PROCESSING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jan 27	ADM Animal Nutrition	Quincey, IL	Fire	Grain Dust	0	0	Pellet Hopper	No Details	
Mar 7	American Crystal Sugar Company	Moorhead, MN	Fire	Sugar Dust	0	0	Dust Collector	No Details	
Mar 28	Archer Daniels Midland	Clinton, IA	Fire	Animal Feed Processing	0	0	Dust Collector	No Details	
Apr 25	Western Grain Marketing, LLC	Adair, IL	Fire	Grain Dust	0	0	Conveyor Belt System	No Details	
May 6	Keller's Creamery Inc.	Winnsboro, TX	Fire	Unknown	0	0	Dust Collector	No Details	
Jun 11	Johnson Nash & Sons' Farms Inc.	Rose Hill, NC	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Jun 19	Post Foods	Battle Creek, MI	Fire	Grain Dust	0	0	Cereal Hopper	No Details	
Sep 26	Post Foods	Battle Creek, MI	Fire	Grain Dust	0	0	Grain Hopper	No Details	
Oct 2	Bay State Milling	Winona, MN"	Explosion	Grain Dust	0	0	Dust Collector	No Details	
Oct 8	Unknown	Jo Daviess County, IL	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 17	SunWest Milling	Biggs, CA	Fire	Grain Dust	0	0	Conveyor System	No Details	
Nov 22	California Dairies Inc	Fresno, CA	Fire	Powdered Milk	0	0	Milk Dryer	No Details	
Dec 2	Barry Callebaut USA LLC	Eddystone, PA	Fire	Cocoa Dust	0	0	Storage Silo	No Details	

INCIDENT SUMMARY - INCIDENTS: 13 | FIRES: 12 | EXPLOSIONS: 1 | INJURIES: 0 | FATALITIES: 0

POWER GENERATION & COAL

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jan 29	Thiele Kaolin Company	Sandersonville, GA	Fire	Mineral Dust	0	0	Dust Collector	No Details	
May 16	Muscatine Power and Water	Muscatine, IA	Fire	Coal Dust	0	0	Dust Collector	No Details	
Sep 7	Braxton Lumber Company	Heaters, WV	Explosion	Coal Dust	1	0	Storage Container	No Details	

INCIDENT SUMMARY - INCIDENTS: 3 | FIRES: 2 | EXPLOSIONS: 1 | INJURIES: 1 | FATALITIES: 0

PULP & PAPER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jul 18	Nippon Dynawave Packaging	Longview, WA	Fire	Paper Dust	1	0	Conveyor Belt	No Details	
Sep 11	Georgia-Pacific Corporation	Toledo, OH	Fire	Paper Dust	0	0	Wood Chip Dryer	No Details	
Sep 13	Tissue Depot	Cheboygan, MI	Fire	Paper Dust	0	0	Unknown	No Details	
Sep 18	Georgia-Pacific LLC	Toledo, OH	Fire	Paper Dust	0	0	Wood Chip Dryer	No Details	

INCIDENT SUMMARY - INCIDENTS: 4 | FIRES: 4 | EXPLOSIONS: 0 | INJURIES: 1 | FATALITIES: 0

SCHOOLS & EDUCATIONAL FACILITIES

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
May 19	Fleetwood Area Senior High School	Fleetwood Area Senior High School	Fire	Unknown	0	0	Dust Collector	No Details	
Sep 15	Yreka Union High School	Yreka Union High School	Fire	Wood Dust	0	0	Dust Collector	No Details	
Dec 10	Buffalo State University	Buffalo State University	Fire	Unknown	0	0	Dust Collector	No Details	

INCIDENT SUMMARY - INCIDENTS: 3 | FIRES: 3 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0

OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT.	EQUIPMENT	DAMAGES	LINK
Jan 11	Carus LLC	LaSalle, IL	Explosion	Chemical Dust	0	0	Unknown	No Details	
Jan 13	Altec Inc.	Daleville, VA	Fire	Unknown	0	0	Dust Collector	No Details	
Jan 25	Steinway & Sons	Queens, NY	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Feb 1	Nudo	Springfield, IL	Fire	Plastic Dust	0	0	Dust Collector	No Details	
Mar 15	Back River Wastewater Treatment Plant	Baltimore, MD	Explosion	Dried Sewage Sludge	0	0	Sewage Sludge Dryer	\$10,000,000	
Apr 15	Pinova Inc.	Brunswick, GA	Fire	Plastic Dust	0	0	Unknown	No Details	
Jul 8	Cooper Tire	Findlay, OH	Fire	Rubber Dust	1	0	Dust Collector	No Details	
Jul 17	Unknown	Zion, WI	Fire	Unknown	1	0	Storage Silo	No Details	
Oct 3	Unknown	Moraine, OH	Fire	Unknown	0	0	Dust Collector	No Details	
Nov 1	Harold MacQuinn Inc.	Hancock, ME	Fire	Slag Waste	0	0	Conveyor Belt	No Details	
Nov 25	POET Bioprocessing	Shell Rock, IA	Explosion	Unknown Combustible Dust	0	0	Unknown	No Details	
Nov 27	Unknown	Douglas County, CO	Fire	Grain Dust	1	0	Unknown	No Details	
Dec 16	Royal Oak Charcoal	Monterey, TN	Fire	Sawdust	0	0	Sawdust Silo	No Details	
Dec 20	R3 Industrial	Franklin, KY	Fire	Fabric Dust	1	0	Clothing Dryer	No Details	

INCIDENT SUMMARY - INCIDENTS: 14 | FIRES: 11 | EXPLOSIONS: 3 | INJURIES: 4 | FATALITIES: 0

WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 6	Scierie St-Elzéar Inc.	Saint-Elzéar-de-Bonaventure, QC	Fire	Wood Dust	0	0	Debarking Machine	No Details	
May 7	Top Bedding	Berthier-sur-Mer, QC	Fire	Wood Dust	0	0	Unknown	No Details	
Aug 17	Uniboard Canada Inc.	Sayabec, QC	Explosion	Wood Dust	0	0	Wood Dryer	No Details	
Oct 11	Canfor	Radium Hot Springs, BC	Fire	Wood Dust	0	0	Dust Collector	No Details	
INCIDENT SUMMARY - INCIDENTS: 4 FIRES: 3 EXPLOSIONS: 1 INJURIES: 0 FATALITIES: 0									

AGRICULTURE

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Feb 25	Unknown	Saint-Georges, QC	Fire	Grain Dust	0	0	Grain Silo	No Details	
Mar 21	Country Ribbon Inc.	St. John's, NL	Fire	Grain Dust	0	0	Grain Silo	No Details	
Nov 13	Collwest Grain	Collingwood, ON	Fire	Grain Dust	0	0	Grain Dryer	No Details	
INCIDENT SUMMARY - INCIDENTS: 3 FIRES: 3 EXPLOSIONS: 0 INJURIES: 0 FATALITIES: 0									

FOOD PROCESSING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 17	Alberta Distillers	Calgary, AB	Explosion	Unknown	0	0	Ductwork	No Details	
Dec 1	Gouldhaven Farms	Foresters Falls, ON	Fire	Grain Dust	0	0	Storage Silo	No Details	
INCIDENT SUMMARY - INCIDENTS: 2 FIRES: 1 EXPLOSIONS: 1 INJURIES: 0 FATALITIES: 0									

PULP & PAPER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 2	Cascades Tissue Group	Kingsey Falls, QC	Fire	Paper Dust	0	0	Unknown	No Details	
Jul 8	Paper Excellence	Port Alberni, BC	Fire	Wood Dust	0	0	Conveyor Belt System	No Details	
INCIDENT SUMMARY - INCIDENTS: 2 FIRES: 2 EXPLOSIONS: 0 INJURIES: 0 FATALITIES: 0									

POWER GENERATION

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Apr 30	Donkin Coal Mine	Donkin, NS	Fire	Coal Dust	0	0	Conveyor System	No Details	
INCIDENT SUMMARY - INCIDENTS: 1 FIRES: 1 EXPLOSIONS: 0 INJURIES: 0 FATALITIES: 0									

OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 2	Cascades Tissue Group	Kingsey Falls, QC	Fire	Paper Dust	0	0	Unknown	No Details	
Jun 27	Peace River Bridge	Peace River, AB	Fire	Paint Dust	0	0	Dust Collector	No Details	
Aug 1	Unknown	Sarnia, ON	Fire	Unknown	0	0	Dust Collector	No Details	
Oct 23	Atlantic Packaging	Port Colborne, ON	Fire	Paper Dust	0	0	Dryer	No Details	

INCIDENT SUMMARY - INCIDENTS: 4 | FIRES: 4 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0

WOOD & WOOD PRODUCTS

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 1	Unknown	Nova Veneza, Brazil	Fire	Wood Dust	0	0	Wood Chipper	No Details	
Jan 2	De Baere Frères	Ellezelles, Belgium	Fire	Wood Dust	0	0	Wood Chip Silo	No Details	
Jan 8	Unknown	Albina, Italy	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Jan 12	Unknown	Sainte-Cécile, France	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Jan 23	Unknown	Tiarno di Sopra, Italy	Fire	Wood Dust	0	0	Unknown	No Details	
Feb 2	Unknown	Campo Erê Santa, Brazil	Fire	Wood Dust	0	0	Wood Shavings Silo	No Details	
Feb 7	Unknown	Santiago do Sul, Brazil	Fire	Wood Dust	0	0	Storage Silo	No Details	
Feb 8	Unknown	Mafra, Brazil	Fire	Wood Dust	0	0	Sawdust Silo	\$2,000	
Feb 14	Unknown	Aalen, Germany	Fire	Wood Dust	0	0	Sawdust Silo	\$31,750	
Feb 14	Unknown	Barracão, Brazil	Fire	Wood Dust	0	0	Wood Dryer	No Details	
Feb 16	Unknown	St-Jory las Bloux, France	Fire	Wood Dust	0	0	Silo	No Details	
Feb 16	Unknown	Gersthofen, Germany	Explosion	Wood Dust	2	0	Silo	No Details	
Feb 21	Ichioka Wooden Co., Ltd.	Nakatsugawa City, Japan	Fire	Wood Dust	0	0	Dust Collector	No Details	
Feb 27	Fibre Excellence Saint-Gaudens SAS	Haute-Garonne, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
Mar 1	Taranaki Sawmills	New Plymouth, New Zealand"	Fire	Wood Dust	0	0	Wood Chip Silo	No Details	
Mar 3	Tartière et Fils	Puy-de-Dôme, France	Fire	Wood Dust	0	0	Wood Pallet Storage	No Details	
Mar 8	Unknown	Nova Ponte, Brazil	Explosion	Wood Dust	0	0	Storage Silo	No Details	
Mar 16	Unknown	Hennigsdorf, Germany	Fire	Wood Dust	0	0	Wood Chip Silo	\$109,000	
Mar 17	Unknown	Unterkrnach, Germany	Fire	Wood Dust	0	0	Unknown	No Details	
Mar 20	Ziegler Holzindustrie	Pressath, Germany	Fire	Wood Dust	0	0	Planing Machine	No Details	
Mar 21	Unknown	Parigny, France	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Mar 24	A. Faria, Irmaos & Filhos, Ltd.	Amares, Portugal	Fire	Wood Dust	0	0	Wood Silo	No Details	
Mar 27	CF2P	Lure, France	Fire	Wood Dust	0	0	Wood Dryer	No Details	
Apr 4	Unknown	Koriyama City, Japan	Fire	Wood Dust	0	0	Wood Waste Pallet	No Details	
Apr 7	Wolf Fenster	Sciaves, Italy	Explosion	Wood Dust	0	0	Storage Silo	No Details	
Apr 16	Mayr-Melnhof Holz Gaishorn GmbH	Gaishorn am See, Austria	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Apr 18	Unknown	Gironde, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
Apr 25	Unknown	Motten, Germany	Fire	Wood Dust	0	0	Dust Collector	No Details	
Apr 25	Andrea Casati Design	Cantù, Italy	Fire	Wood Dust	0	0	Storage Silo	No Details	
Apr 28	Pierre Alquier et Fils Sawmill	Saint-Félix-Lauragais, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
May 2	Polyrey	Baneuil, France	Fire	Wood Dust	0	0	Waste Silo	No Details	
May 12	Escanor SA	Saint-Lô, France	Fire	Wood Dust	0	0	Storage Silo	No Details	

WOOD & WOOD PRODUCTS CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
May 13	Eitai Sangyo	Tsuruga City, Japan	Explosion	Wood Dust	0	1	Unknown	No Details	
May 17	Montibert SAS	Thizy les Bourgs, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
May 30	Unknown	San Miniato Basso, Italy	Fire	Wood Dust	0	0	Storage Silo	No Details	
May 31	EGGER Holzwerkstoffe Wismar GmbH & Co. KG	Wismar, Germany	Explosion	Wood Dust	2	0	Dust Collector	\$1,100,000	
Jun 1	Unknown	Vergiate, Italy	Fire	Wood Dust	0	0	Wood Waste Silo	No Details	
Jun 6	Unknown	Döllnitz, Germany	Fire	Wood Dust	0	0	Storage Silo	\$5,500	
Jun 8	Unknown	Kerzers, Switzerland	Fire	Wood Dust	0	0	Unknown	No Details	
Jun 11	Unknown	Malsch, Germany	Fire	Wood Dust	0	0	Wood Chip Container	\$22,000	
Jun 15	Unknown	Canela, Brazil	Fire	Storage Shed	0	0	Storage Shed	No Details	
Jun 17	Unknown	Bersenbrück, Germany	Fire	Wood Dust	0	0	Dust Collector	No Details	
Jun 22	Unknown	Otacilio Costa, Brazil	Fire	Wood Dust	0	0	Storage Silo	No Details	
Jun 23	Groupe SIAT	Urmatt, France	Explosion	Sawdust	0	0	Sawdust Silo	No Details	
Jun 27	Unknown	Bibart, Germany	Fire	Wood Dust	0	0	Wood Chip Storage	No Details	
Jun 30	Unknown	Saint-Bonnet-le-Château, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
Jul 17	No Details	Mossautal, Germany	Fire	Wood Dust	0	0	Wood Chip Containers	No Details	
Aug 3	Unknown	Würzburg, Germany	Fire	Wood Dust	0	0	Conveyor System	No Details	
Aug 9	Swiss Krono AG	Menznau, Switzerland	Fire	Wood Dust	0	0	Unknown	No Details	
Aug 17	Unknown	Vallefoglia, Italy	Fire	Sawdust	0	0	Sawdust Silo	No Details	
Aug 22	Unknown	Rauschendorf, Germany"	Fire	Wood Dust	0	0	Chip Bunker	No Details	
Sep 13	Unknown	Wallenrod, Germany	Explosion	Wood Dust	2	0	Storage Silo	\$1,000,000	
Sep 19	Unknown	Teutônia, Brazil	Fire	Wood Dust	0	0	Storage Silo	No Details	
Oct 1	NCT Wood Chip Mill	Richards Bay, South Africa	Fire	Wood Dust	0	0	Conveyor Belt	No Details	
Oct 5	Unknown	Mariaberg, Germany	Fire	Wood Dust	2	0	Chip Silo	No Details	
Oct 13	SAM	Antrim, UK	Explosion	Sawdust	2	0	Unknown	No Details	
Oct 14	Unknown	Perumbavoor, India	Fire	Wood Dust	0	0	Electronic Panel Board	No Details	
Oct 17	Unknown	Rio Negrinho, Brazil	Fire	Wood Dust	0	0	Wood Dryer	No Details	
Nov 9	Lignex	2 Chem. du Moulin, France	Fire	Wood Dust	0	0	Grinding Line Machinery	No Details	
Nov 11	Unknown	Markt Bibart	Fire	Wood Dust	0	0	Storage Silo	No Details	
Nov 13	Unknown	Rue de l'Alzon, France	Fire	Wood Dust	0	0	Sawdust Silo	No Details	
Nov 16	Unknown	Sambucheto, Italy	Fire	Wood Dust	0	0	Storage Silo	No Details	
Nov 20	Placas do Brasil	Pinheiros, Brazil	Fire	Wood Dust	0	0	Waste Storage Silo	No Details	
Dec 2	Unknown	Workerszell, Germany	Fire	Wood Dust	0	0	Filter System	\$76,000	

WOOD & WOOD PRODUCTS CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Dec 5	Unknown	Cabeceiras de Basto, Portugal	Fire	Wood Dust	0	0	Storage Silo	No Details	
Dec 6	Etablissements Marcadé	Évriguet, France	Fire	Wood Dust	0	0	Conveyor Belt	No Details	
Dec 6	Chassignol Bois et Parquets	Loire, France	Fire	Wood Dust	0	0	Storage Silo	No Details	
Dec 6	Chassignol Bois et Parquets	Loire, France	Fire	Wood Dust	0	0	Unknown	No Details	
Dec 11	Kageyama Sawmill	Tottori, Japan	Fire	Wood Dust	0	0	Unknown	No Details	
Dec 12	Entreprise Bonecher Sàrl	Semécourt, France	Explosion	Wood Dust	0	0	Sawdust Silo	No Details	
Dec 21	La Virouzière	Orne, France	Fire	Wood Dust	0	0	Storage Shed	No Details	
Dec 25	Unknown	Oberrot, Germany	Fire	Sawdust	0	0	Sawdust Silo	No Details	
Dec 29	Unknown	Cidreira, Brazil	Fire	Wood Dust	0	0	Sawdust Silo	No Details	

INCIDENT SUMMARY - INCIDENTS: 73 | FIRES: 64 | EXPLOSIONS: 9 | INJURIES: 10 | FATALITIES: 1

AGRICULTURAL

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 3	Vivescia	Bussy-Lettrée, France	Fire	Grain Dust	0	0	Dust Collector	No Details	
Jan 4	Axereal	Santeuil, France	Fire	Grain Dust	0	0	Storage Silo	No Details	
Jan 6	Kordin Grain Terminal Malta	Paola, Malta	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jan 9	Unknown	Westerhorn, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jan 10	Unknown	Wolfegg, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jan 11	Unknown	Turvo, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jan 14	Unknown	Forquilha, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jan 16	Giurgiulești International Free Port	Giurgiulești, Moldova	Explosion	Grain Dust	0	0	Grain Silo	No Details	
Jan 31	Grain Marketing Board	Chegutu, Zimbabwe	Explosion	Grain Dust	10	0	Grain Bucket Elevator	No Details	
Feb 3	Unknown	Novo Horizonte, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 4	Unknown	Novo Horizonte, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 10	Unknown	Estreito, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 11	Unknown	Sorriso, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 15	Unknown	Meleiro, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Feb 15	Unknown	Capela Monte Bérico, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Feb 19	Unknown	Bohmte, Germany	Fire	Silage	0	0	Grain Silo	\$53,000	
Feb 25	LG Rigi	Küssnacht, Switzerland	Fire	Grain Dust	0	0	Grain Silo	No Details	
Feb 26	Unknown	São João del-Rei, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Feb 26	I.Riedi	Pérola Independente, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 4	Unknown	Pratápolis, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	

AGRICULTURAL CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 12	Cocari de Jandaia	Jandaia do Sul, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 13	Unknown	Horizonte, Brazil	Fire	Grain Dust	0	0	Storage Shed	No Details	
Mar 20	Unknown	Vacaria, Brazil	Fire	Grain Dust	0	0	Conveyor Belt	No Details	
Mar 21	Unknown	Campo Mourão, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 23	Unknown	São Bento do Sul, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 25	Cooperativa Agropecuária Camponovense	Lebon Régis, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Mar 29	Unknown	Lacerdópolis, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 4	Unknown	Campo Grande, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 6	Unknown	Turvo, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 11	Unknown	Paraíso do Tocantins, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Apr 25	SAS Agri Estuaire	Saint-Viaud, France	Fire	Grain Dust	0	0	Grain Silo	No Details	
May 9	Unknown	Água Doce, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
May 11	Unknown	Ziersdorf, Austria	Fire	Grain Dust	0	0	Grain Silo	No Details	
May 13	Unknown	Saint-Maurice-des-Noies, France	Fire	Grain Dust	0	0	Grain Dryer	No Details	
May 19	Unknown	Guarda Mor, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jun 6	Unknown	Rendsburg, Germany	Explosion	Grain Dust	0	0	Grain Silo	No Details	
Jun 8	Unknown	Cornillé, France	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jun 12	Unknown	Ludwigslust-Parchim, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jun 14	Unknown	Ingham, UK	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jun 28	SCEA de l'Epi	Til-Châtel, France	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jul 4	InVivo	Metz, France	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jul 7	Unknown	Goiatuba, Brazil	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jul 9	Unknown	Hamburg, Germany	Fire	Grain Dust	0	0	Conveyor System	No Details	
Jul 14	Unknown	Fehrbellin, Germany	Explosion	Grain Dust	0	0	Grain Silo	\$11,000	
Jul 14	Unknown	Luís Eduardo Magalhães, Brazil	Fire	Grain Dust	0	0	Hay Storage Warehouse	No Details	
Jul 20	Unknown	Dresden, Germany	Fire	Grain Dust	0	0	Storage Silo	No Details	
Jul 21	Unknown	Neuss, Germany	Fire	Grain Dust	0	0	Storage Silo	No Details	
Jul 31	Unknown	Inneringen, Germany	Fire	Grain Dust	0	0	Grain Dryer	\$43,500	
Aug 6	Bunge Alimentos	Ponta Grossa, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Aug 7	Turkish Grain Board	Port of Derince, Turkey	Explosion	Grain Dust	7	2	Grain Silo	No Details	
Aug 7	Unknown	Haßbergen, Germany	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Aug 8	Unknown	Sheriffs Lench, UK	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Sep 24	Unknown	Hamburg, Germany	Explosion	Grain Dust	0	0	Grain Silo	No Details	
Sep 29	Unknown	Condobolin, Australia	Fire	Grain Dust	0	0	Loader Vehicle	No Details	

AGRICULTURAL CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Oct 4	Unknown	Midi-Pyrenees, France	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 14	Unknown	Breitenbrunn, Germany	Fire	Grain Dust	0	0	Storage Warehouse	\$21,000	
Oct 17	Unknown	Santa Catarina, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Nov 1	Eureden Cooperative	Quimperlé, France	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Nov 18	Unknown	Vedelago, Italy	Fire	Grain Dust	0	0	Grain Silo	No Details	
Nov 23	Unknown	Dieppe, France	Fire	Grain Dust	0	0	Storage Silo	No Details	
Dec 7	Unknown	Leeton, Australia	Fire	Grain Dust	0	0	Storage Silo	No Details	
Dec 7	Appro-Vert SAS	Argentan, France	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Dec 19	Unknown	Lorris, France	Fire	Grain Dust	0	0	Storage Silo	No Details	
Dec 20	Agrial de l'Amailillerie	Brittany, France	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Dec 23	Unknown	Schildorn, Austria	Fire	Wood Dust	2	0	Combustion System	No Details	

INCIDENT SUMMARY - INCIDENTS: 65 | FIRES: 59 | EXPLOSIONS: 6 | INJURIES: 19 | FATALITIES: 2

FOOD PROCESSING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 5	Unknown	Föhren, Germany	Fire	Grain Dust	0	0	Silo	No Details	
Jan 7	Cristal Union	Bazancourt, France	Explosion	Grain Dust	0	0	Pellet Silo	No Details	
Mar 13	Coamo Agroindustrial Cooperativa	Ponta Porã, Brazil	Explosion	Grain Dust	7	0	Grain Dryer	No Details	
Mar 20	Unknown	Iguatemi, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Mar 31	Unknown	Major Vieira, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Apr 12	Unknown	Morogoro, Tanzania	Explosion	Sugar Dust	7	2	Unknown	No Details	
Apr 16	Unknown	Rostock, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jun 8	EDME	Mistley, UK	Explosion	Grain Dust	0	0	Conveyor System	No Details	
Jun 13	Fazenda Dona Aurora	Vera, Brazil	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Jun 17	Santa Maria Farm	Boa Esperança, Brazil	Fire	Coffee Dust	0	0	Coffee Dryer	No Details	
Jul 20	Unknown	Guaxupé, Brazil	Fire	Grain Dust	0	0	Coffee Dryer	No Details	
Jul 24	Unknown	Teltow-Fläming, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Jul 27	C.Vale Cooperative	Palotina, Brazil	Explosion	Grain Dust	10	10	Grain Silo	No Details	
Jul 31	Unknown	Brunstorf, Germany	Fire	Grain Dust	0	0	Grain Silo	No Details	
Aug 1	Terrena Pro Essentiel	Saint-Gildas-des-Bois, France	Fire	Grain Dust	0	0	Animal Pellet Dryer	No Details	
Aug 10	Port Atlantique La Rochelle	La Rochelle, France	Fire	Grain Dust	0	0	Grain Silo	No Details	
Aug 30	Portgordon Maltings	Buckie, Banffshire	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Sep 16	Unknown	Dudley, UK	Fire	Grain Dust	0	0	Unknown	No Details	

FOOD PROCESSING CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Sep 23	Unknown	North Dorset, UK	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 9	Tereos	Aisne, France	Explosion	Sugar Dust	2	0	Beet Dehydrator	No Details	
Oct 12	Unknown	Satigny, Switzerland	Fire	Grain Dust	0	0	Grain Dryer	No Details	
Oct 12	Sopral	Brittany, France	Fire	Grain Dust	0	0	Grinder	No Details	
Nov 1	Mowi	Valneset, Norway	Explosion	Fish Meal	0	0	Storage Silo	No Details	
Dec 19	Cantine Maschio	Vazzola, Italy	Fire	Pomace Dust	0	0	Dust Collector	No Details	

INCIDENT SUMMARY - INCIDENTS: 24 | FIRES: 17 | EXPLOSIONS: 7 | INJURIES: 26 | FATALITIES: 12

AUTOMOTIVE & METAL WORKING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 15	Unknown	Hilpertsau, Germany	Fire	Unknown	0	0	Storage Silo	No Details	
Jul 6	Unknown	Lilienfeld, Austria	Fire	Aluminum Dust	3	0	Dust Collector	No Details	
Jul 15	Unknown	Conselheiro Lafaiete, Brazil	Fire	Metal Dust	0	0	Conveyor Belt	No Details	
Sep 1	Unknown	Cabreuva, Brazil	Explosion	Metal Dust	12	2	Aluminum Melting Furnace	No Details	
Nov 25	Eurocast	Arcos de Valdevez, Portugal	Fire	Metal Dust	0	0	Storage Silo	No Details	
Dec 1	Teruel Industrie	Vireux-Molhain, France	Fire	Metal Dust	0	0	Laser Cutting Machine	No Details	
Dec 18	EG LOG	Talange, France	Fire	Metal Dust	0	0	Unknown	No Details	
Dec 30	Unknown	Ronco all'Adige, Italy	Fire	Metal Dust	0	0	Storage Silo	No Details	

INCIDENT SUMMARY - INCIDENTS: 8 | FIRES: 7 | EXPLOSIONS: 1 | INJURIES: 15 | FATALITIES: 2

PULP & PAPER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 11	Gascogne Papier	Mimizan, France	Fire	Wood Dust	0	0	Not Applicable	No Details	
May 25	Unknown	Karlsruhe, Germany	Fire	Paper Dust	0	0	Storage Silo	No Details	
May 30	Unknown	Château-Porcien, France	Fire	Paper Dust	0	0	Storage Silo	No Details	
Dec 28	Kerala Paper Products Limited (KPPL)	Kerala, India	Fire	Coal Dust	0	0	Conveyor Belt	No Details	

INCIDENT SUMMARY - INCIDENTS: 4 | FIRES: 4 | EXPLOSIONS: 0 | INJURIES: 0 | FATALITIES: 0

POWER GENERATION & COAL HANDLING

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jan 2	Unknown	Nan'an, China	Explosion	Coal Dust	0	0	Unknown	No Details	
Jan 14	Unknown	Minas Gerais, Brazil	Fire	Coal Dust	0	0	Conveyor Belt	No Details	
Mar 14	Unknown	Sutatausa, Colombia	Fire	Coal Dust	0	21	Unknown	No Details	
Mar 24	Ridderskaya Tets	Ridder, Kazakhstan	Explosion	Coal Dust	0	0	Boilers	No Details	
Apr 24	Unknown	Hagen, Germany	Fire	Wood Dust	0	0	Wood Waste Silo	No Details	
May 2	Sodegaura Power Station	Sodegaura City, Chiba, Japan	Fire	Wood Dust	0	0	Storage Silo	No Details	
Jun 9	Unknown	Tramin, South Tyrol, Italy	Fire	Wood Dust	0	0	Wood Pellet Silo	No Details	
Jun 13	Enel Torrealvaldliga Nord Plant	Civitavecchia, Lazio, Italy	Fire	Coal Dust	0	0	Conveyor Belt	No Details	
Jun 19	Unknown	Horn-Bad Meinberg, North Rhine-Westphalia, Germany	Explosion	Wood Dust	0	0	Unknown	No Details	
Aug 17	Kazakhstanskaya Mine	Karaganda, Kazakhstan	Fire	Coal Dust	0	5	Conveyor Belt	No Details	
Sep 9	Yonago Biomass Power Plant	Yonago City, Tottori Prefecture, Japan	Explosion	Wood Dust	0	0	Pellet Storage Facility	No Details	
Sep 24	Shanjiaoshu coal mine	Panguan, Guizhou, China	Fire	Coal Dust	0	16	Conveyor Belt	No Details	

INCIDENT SUMMARY - INCIDENTS: 12 | FIRES: 8 | EXPLOSIONS: 4 | INJURIES: 0 | FATALITIES: 42

OTHER

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Mar 5	Unknown	Büddenstedt, Germany	Fire	Wood Dust	0	0	Wood Pellet Heating System	\$107,000	
Mar 13	Unknown	Vicenza, Italy	Fire	Unknown	0	0	Conveyor Belt	No Details	
Mar 30	Sakai Chemical Industry Co., Ltd.	Iwaki City, Japan	Fire	Chemical Dust	0	0	Dust Collector	No Details	
Apr 2	I.P.A.E - Pro garden	Merone, Italy	Explosion	Plastic Dust	0	0	Storage Silo	No Details	
Apr 7	Unknown	Schabs, Italy	Fire	Wood Dust	0	0	Storage Silo	No Details	
Apr 13	Unknown	Memmingen, Germany	Fire	Plastic Dust	0	0	Storage Silo	\$5,600	
May 6	Forever Plast	Lograto, Italy	Fire	Plastic Dust	0	0	Storage Silo	No Details	
May 16	Unknown	Venice, Italy	Fire	Plastic Dust	0	0	Storage Silo	No Details	
May 16	Unknown	Apucarana, Brazil	Fire	Cotton Dust	0	0	Cotton Silo	No Details	
May 18	Docks Cereali S.P.A.	Ravenna, Italy	Fire	Rubber Dust	0	0	Conveyor Belt	No Details	
Jun 1	Unknown	Ponte Alta, Brazil	Fire	Unknown	0	0	Dust Collector	No Details	
Jun 5	Unknown	Neustadt, Germany	Fire	Unknown	0	0	Dust Collector	\$11,000	
Jun 6	EarthMinded	Billy-Berclau, France	Explosion	Plastic Dust	0	0	Unknown	No Details	
Jun 12	Moulds Patterns and Models Limited	Bramley, UK	Explosion	Unknown	0	0	Unknown	No Details	

OTHER CONTINUED

DATE	COMPANY	LOCATION	TYPE	FUEL	INJ.	FAT	EQUIPMENT	DAMAGES	LINK
Jun 27	Unknown	Westbury-on-Severn, UK	Fire	Wood Dust	0	0	Unknown	No Details	
Jul 7	Celanese Production Italy s.r.l.	Villa Selva, Italy	Fire	Plastic Dust	0	0	Storage Silos	No Details	
Aug 17	Unknown	Burghamm, Germany	Fire	Unknown	0	0	Unknown	No Details	
Sep 14	Hanbang Lianhang Laser Technology Co., Ltd	Shanghai, China	Explosion	Metal Dust	2	2	Dust Collector	No Details	
Oct 28	Unknown	Paranaguá, Brazil	Fire	Grain Dust	1	0	Conveyor Belt	No Details	
Nov 4	Northvolt	Skellefteå, Sweden	Explosion	Unknown Dust	0	1	Unknown	No Details	
Nov 6	Ulopor	Probstzella, Germany	Explosion	Slate Dust	0	0	Storage Silo	\$109,415.50	
Nov 18	Tsuruga Cement	Tsuruga City, Japan	Fire	Cement Dust	0	0	Conveyor Belt	No Details	

INCIDENT SUMMARY - INCIDENTS: 22 | FIRES: 16 | EXPLOSIONS: 6 | INJURIES: 3 | FATALITIES: 3



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We spoke with Kristian Flitton, Environmental Health and Safety Coordinator at Viking Yacht Company, to learn more about how our fans have allowed them to reduce cleaning and insurance costs, and keep production going while their fans operate in the background to keep them safe and compliant 24/7.



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Author: Dr. Chris Cloney, DustEx Research Ltd.

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Example Reference:

Cloney, Chris (2024). "2023 Combustible Dust Incident Report - Version #1" DustEx Research Ltd. Retrieved from <http://dustsafetyscience.com/2023-Report>



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