Combustible Dust Does your company or firm process any of these products or materials in powdered form?

If your company or firm processes any of these products or materials, there is potential for a "Combustible Dust" explosion.

Agricultural Products	Cottonseed	Soybean dust	Chemical Dusts	Epoxy resin
Egg white	Garlic powder	Spice dust	Adipic acid	Melamine resin
Milk, powdered	Gluten	Spice powder	Anthraquinone	Melamine, molded
Milk, nonfat, dry	Grass dust	Sugar (10x)	Ascorbic acid	(phenol-cellulose)
Soy flour	Green coffee	Sunflower	Calcium acetate	Melamine, molded
Starch, corn	Hops (malted)	Sunflower seed dust	Calcium stearate	(wood flour and
Starch, rice	Lemon peel dust	Теа	Carboxy-methylcellulose	mineral filled phenol-
Starch, wheat	Lemon pulp	Tobacco blend	Dextrin	formaldehyde)
Sugar	Linseed	Tomato	Lactose	(poly) Methyl acrylate
Sugar, milk	Locust bean gum	Walnut dust	Lead stearate	(poly) Methyl acrylate,
Sugar, beet	Malt	Wheat flour	Methyl-cellulose	emulsion polymer
Таріоса	Oat flour	Wheat grain dust	Paraformaldehyde	Phenolic resin
Whey	Oat grain dust	Wheat starch	Sodium ascorbate	(poly) Propylene
Wood flour	Olive pellets	Xanthan gum	Sodium stearate	Terpene-phenol resin
	Onion powder		Sulfur	Urea-formaldehyde/
Agricultural Dusts	Parsley (dehydrated)	Carbonaceous Dusts		cellulose, molded
Alfalfa	Peach	Charcoal, activated	Metal Dusts	(poly) Vinyl acetate/
Apple	Peanut meal and skins	Charcoal, wood	Aluminum	ethylene copolymer
Beet root	Peat	Coal, bituminous	Bronze	(poly) Vinyl alcohol
Carrageen	Potato	Coke, petroleum	Iron carbonyl	(poly) Vinyl butyral
Carrot	Potato flour	Lampblack	Magnesium	(poly) Vinyl chloride/
Cocoa bean dust	Potato starch	Lignite	Zinc	ethylene/vinyl

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Cocoa powder	Raw yucca seed dust	Peat, 22%H ₂ 0		acetylene suspension
Coconut shell dust	Rice dust	Soot, pine	Plastic Dusts	copolymer
Coffee dust	Rice flour	Cellulose	(poly) Acrylamide	(poly) Vinyl chloride/
Corn meal	Rice starch	Cellulose pulp	(poly) Acrylonitrile	vinyl acetylene
Cornstarch	Rye flour	Cork	(poly) Ethylene	emulsion
Cotton	Semolina	Corn	(low-pressure process)	copolymer

Dust Control Measures

The dust-containing systems (ducts and dust collectors) are designed in a manner (i.e., no leaking) that fugitive dusts are not allowed to accumulate in the work area.

The facility has a housekeeping program with regular cleaning frequencies established for floors and horizontal surfaces, such as ducts, pipes, hoods, ledges, and beams, to minimize dust accumulations within operating areas of the facility.

The working surfaces are designed in a manner to minimize dust accumulation and facilitate cleaning.

Ignition Control Measures

Electrically-powered cleaning devices such as vacuum cleaners, and electrical equipment are approved for the hazard classification for Class II locations.

The facility has an ignition control program, such as grounding and bonding and other methods, for dissipating any electrostatic charge that could be generated while transporting the dust through the ductwork.

The facility has a Hot Work permit program.

Areas where smoking is prohibited are posted with "No Smoking" signs.

Duct systems, dust collectors, and dust-producing machinery are bonded and grounded to minimize accumulation of static electrical charge. The facility selects and uses industrial trucks that are approved for the combustible dust locations.

Prevention Measures

The facility has separator devices to remove foreign materials capable of igniting combustible dusts.

MSDSs for the chemicals which could become combustible dust under normal operations are available to employees.

Employees are trained on the explosion hazards of combustible dusts.

Protection Measures

The facility has an emergency action plan.

Dust collectors are not located inside of buildings. (Some exceptions)

Rooms, buildings, or other enclosures (dust collectors) have explosion relief venting distributed over the exterior wall of buildings and enclosures.

Explosion venting is directed to a safe location away from employees.

The facility has isolation devices to prevent deflagration propagation between pieces of equipment connected by ductwork.

The dust collector systems have spark detection and explosion/ deflagration suppression systems.

Emergency exit routes are maintained properly.

Occupational Safety and Health Administration

U.S. Department of Labor

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