

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## DEL500P NC010 900 KG BOX

Version 4.1      Revision Date: 21.04.2025      SDS Number: 16132      Date of last issue: 29.01.2025  
Date of first issue: 09.12.2024

### SECTION 1. IDENTIFICATION

Product name : DEL500P NC010 900 KG BOX  
Product code : D11105014 D11105014

#### Manufacturer or supplier's details

Company name of supplier : DELRIN USA, LLC  
Address : Building 308, Experimental Station, 200 Powder Mill Rd  
Wilmington, DE 19805, USA

Telephone : 1-302-295-5900

Emergency telephone : +1-800-424-9300 (outside the U.S. & Canada +1-703-527-3887)

#### Recommended use of the chemical and restrictions on use

Recommended use : Polymer  
Restrictions on use : For manufacturing and research use only.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

#### GHS label elements

Signal Word : Warning

Hazard Statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
formaldehyde	50-00-0	< 0.005

No hazardous ingredients according to the OSHA Hazard Communication Standard 29CFR 19101200.

### SECTION 4. FIRST AID MEASURES

General advice : Remove victim from exposure and then have him lie down in the recovery position.

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If inhaled	:	Never give anything by mouth to an unconscious person. No hazards which require special first aid measures. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
In case of skin contact	:	Cool skin rapidly with cold water after contact with molten material. Do not peel solidified product off the skin. Burns must be treated by a physician.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
If swallowed	:	Drink water as a precaution. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water Foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
Specific hazards during fire fighting	:	Burns with colorless flame.
Hazardous combustion products	:	Hazardous decomposition products due to incomplete combustion Carbon oxides
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ventilate the area. Avoid dust formation. Material can create slippery conditions. Refer to protective measures listed in sections 7 and 8. Use mechanical handling equipment.
Environmental precautions	:	Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods and materials for containment and cleaning up : Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Sweep up or vacuum up spillage and collect in suitable container for disposal. Non-sparking tools should be used.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Water quenching is good practice. Large molten masses may ignite spontaneously in air. Avoid dust formation. During processing, dust may form explosive mixture in air. If formation of dust is observed, equipment has to be switched off, cleaned and serviced. Take measures to prevent the build up of electrostatic charge.

Advice on safe handling : Protect from contamination. Smoking, eating and drinking should be prohibited in the application area. Do not breathe dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. General precaution for all plastics and elastomers: In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage : For personal protection see section 8. Keep in an area equipped with sprinklers. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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formaldehyde	50-00-0	TWA	0.1 ppm	ACGIH
		STEL	0.3 ppm	ACGIH
		TWA	0.016 ppm	NIOSH REL
		C	0.1 ppm	NIOSH REL
		PEL	0.75 ppm	OSHA CARC
		STEL	2 ppm	OSHA CARC
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
		C	0.1 ppm (Formaldehyde)	NIOSH REL
Dust (inhalable and respirable fraction)	Not Assigned	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH

**Engineering measures** : Open container only in well-ventilated area.  
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
Pneumatic conveying and other mechanical handling operations can generate combustible dust.  
As with any acetal polymer, low levels of formaldehyde may occur in the headspace of containers as received or in containers of formed parts after processing. Closed containers of resin or formed parts should be opening in well ventilated areas. Measurements on representative acetal grades yielded formaldehyde levels of less than 2ppm. Levels of formaldehyde can vary according to time, temperature, ventilations, & specific product grade. Please note that the formaldehyde level in a finished part is influenced by material/part handling and processing conditions.

See Bulletin "Proper Use of Local Exhaust Ventilation During Processing of Plastics".

### Personal protective equipment

**Respiratory protection** : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.

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Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection		
Material	:	Leather gloves
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. When handling hot material, use heat resistant gloves. Leather gloves
Eye protection	:	Tightly fitting safety goggles Wear safety glasses with side shields or goggles. Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Skin and body protection	:	Protective suit Heat-resistant clothing. Heat-resistant footwear.
Hygiene measures	:	General industrial hygiene practice. Regular cleaning of equipment, work area and clothing. Wash hands before breaks and at the end of workday. Do not breathe dust. Do not inhale fumes.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Color	:	natural color
Odor	:	slight, vinegar-like
Odor Threshold	:	0.6 ppm
pH	:	Not applicable
Melting point/ range	:	347 - 361 °F / 175 - 183 °C
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air during processing, handling or other means.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower	:	Not applicable

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flammability limit

Vapor pressure : Not applicable

Relative vapor density : Not applicable

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Decomposition temperature : > 446 °F / > 230 °C

Viscosity  
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Self-heating substances : Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Do not expose to temperatures above: > 230 °C  
Temperatures greater than recommended storage temperature.  
Exposure to sunlight.  
Exposure to moisture.  
Heat.

Incompatible materials : Incompatible with strong acids and bases (decomposes forming formaldehyde) and strong oxidizing agents  
Halogenated compounds, except those already present in the formulation as supplied.  
At melt temperatures, acetal resins are incompatible with halogenated polymers such as PVC and PVDC and any elastomers containing halogenated polymers.

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Formaldehyde

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

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### Components:

#### **formaldehyde:**

Acute oral toxicity : Acute toxicity estimate (Rat): 100 mg/kg  
Method: Expert judgment

Acute inhalation toxicity : LC50 (Rat): 490 ppm  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403  
Target Organs: Respiratory system

Acute dermal toxicity : LD50 (Rabbit): 270 mg/kg

#### **Skin corrosion/irritation**

Not classified due to lack of data.

### Components:

#### **formaldehyde:**

Species : Rabbit  
Assessment : Causes burns.  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

#### **Serious eye damage/eye irritation**

Not classified due to lack of data.

### Components:

#### **formaldehyde:**

Species : Rabbit  
Result : Corrosive  
Assessment : Risk of serious damage to eyes.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

### Components:

#### **formaldehyde:**

Species : Humans  
Assessment : The product is a skin sensitizer, sub-category 1A.  
Result : Probability or evidence of high skin sensitization rate in humans

Species : Mouse  
Assessment : Does not cause respiratory sensitization.

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Result : Does not cause respiratory sensitization.

### Germ cell mutagenicity

Not classified due to lack of data.

#### Components:

##### formaldehyde:

Germ cell mutagenicity - Assessment : Positive result(s) from in vivo non-mammalian somatic cell mutagenicity tests, supported by positive results from in vitro mutagenicity assays.

### Carcinogenicity

Not classified due to lack of data.

#### Components:

##### formaldehyde:

Carcinogenicity - Assessment : Possible human carcinogen, Animal experiments showed a statistically significant number of tumors.

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified due to lack of data.

#### Components:

##### formaldehyde:

Reproductive toxicity - Assessment : No toxicity to reproduction

### STOT-single exposure

Not classified due to lack of data.

#### Components:

##### formaldehyde:

Target Organs Assessment : Respiratory system  
: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### STOT-repeated exposure

Not classified due to lack of data.

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### Components:

#### **formaldehyde:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### Components:

#### **formaldehyde:**

Species : Mouse  
Application Route : Inhalation  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 413

Species : Rat  
NOAEL : 21 mg/kg  
LOAEL : 109 mg/kg  
Application Route : Ingestion  
Exposure time : 105 Weeks  
Method : OECD Test Guideline 453

### **Aspiration toxicity**

Not classified due to lack of data.

#### Components:

#### **formaldehyde:**

No aspiration toxicity classification

### **Further information**

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Components:

#### **formaldehyde:**

Toxicity to fish : LC50 : 6.7 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 5.8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): 4.89 mg/l

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plants  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): > 48 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 25 mg/l  
Exposure time: 21 d

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### Persistence and degradability

#### Components:

#### formaldehyde:

Biodegradability : Result: Biodegradable  
Method: OECD Test Guideline 301C

### Bioaccumulative potential

#### Components:

#### formaldehyde:

Bioaccumulation : Method: OECD Test Guideline 305  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0.35 (77 °F / 25 °C)

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Preferred options for disposal are recycling or incineration with energy recovery.  
The high fuel value of this product makes incineration very desirable for material that cannot be recycled.  
Incinerator must be capable of scrubbing out acidic combustion products.

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Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

#### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methyl alcohol	67-56-1	100	100 (F003)

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Pennsylvania Right To Know

Methyl alcohol

67-56-1

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### New Jersey Right To Know

Product does not contain any listed chemicals

### California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer, and Methyl alcohol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### The ingredients of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

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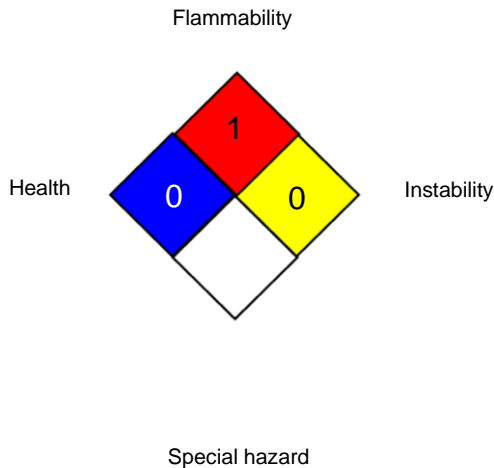
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### NFPA 704:



### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA CARC	:	OSHA Specifically Regulated Chemicals/Carcinogens
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour time weighted average
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA CARC / PEL	:	Permissible exposure limit (PEL)
OSHA CARC / STEL	:	Excursion limit
OSHA Z-3 / TWA	:	8-hour time weighted average

AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International

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Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Read to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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