

# Detonating Cord

SDS: P-8 Version: 6

## Safety Data Sheet

Revision Date: 07/05/2016



### **SECTION 1: IDENTIFICATION**

**Product Identifier:** Detonating Cord  
**Product Names and Synonyms:** Lite Line, Scotch Cord, A-Cord, No. 10 to No. 400 cord series, Seismic Detonating Cord, Slide Line Series, Special Series, Detonating Cords, *Cordeau detonant fuse*  
**Intended Use:** As a commercial explosive.  
**Intended Users:** For use only under strictly controlled conditions and only by qualified personnel who are fully trained in the handling and use of this product.

**Name, Address, and Telephone of the Responsible Party:**

Austin Powder Company  
25800 Science Park Dr.  
Cleveland, OH 44122  
216-464-2400 during normal business hours  
877-836-8286 Toll Free 24/7  
www.austinpowder.com

**In Case of Emergency Call CHEMTREC – TOLL FREE 24/7**  
**800-424-9300 DOMESTIC**  
**1-703-527-3887 INTERNATIONAL AND MARINE**

### **SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture:**

Code	Hazard Class	Hazard Category
H201	Explosives	Division 1.1
H302	Acute toxicity, oral	4

**Label Elements**

**Danger**



**Hazard Statements**

Explosive, mass explosion hazard  
Harmful if swallowed

**Precautionary Statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe dust or fumes.  
Do not subject to grinding, friction, impact or shock.  
Do not eat, drink or smoke when using this product.  
Wear eye protection, protective gloves recommended.  
If exposed or concerned, or you do not feel well: Get medical attention.  
Store locked-up in a ventilated space, in accordance with all applicable regulations.  
Dispose of contents/container in accordance with all applicable regulations.

**Other Hazards:**

In case of fire: Extreme risk of explosion. Evacuate area. **DO NOT** fight fire when fire reaches explosives.

**Unknown Acute Toxicity:** Not available

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Name	Product Identifier	% (w/w)
Pentaerythritol tetranitrate (PETN)	CAS No. 78-11-5	20 - 80%

**SECTION 4: FIRST AID MEASURES**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, get medical attention, show the label where possible.

**Inhalation:** Not expected to be a hazard under normal conditions of use.

**Skin Contact:** Not expected to be a hazard under normal conditions of use.

**Eye Contact:** Not expected to be a hazard under normal conditions of use.

**Ingestion:** Not expected to be a hazard under normal conditions of use.

**Most Important Symptoms and Effects both Acute and Delayed:**

**Inhalation:** None expected.

**Skin Contact:** None expected.

**Eye Contact:** None expected.

**Ingestion:** None expected.

**Chronic Symptoms:** None expected.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:**

If exposed, concerned or you don't feel well, get medical attention.

**SECTION 5: FIRE FIGHTING MEASURES**

**DO NOT fight fires involving Explosives.** There is an extreme risk that explosives involved in a fire may detonate, especially if confined. Evacuate the area in all directions for one (1) mile or more if any amount of explosives is involved in a fire. Evacuation is recommended if the initial (incipient) fire, not involving explosives, becomes intense. General extinguishers may be used on the initial fire not involving explosives, such as electrical equipment fires, tire fires or a general plant fire. Water may be used to cool explosives not involved in the initial fire. Consult the most current Emergency Response Guidebook (ERG), Guide 112 for additional information.

**Extinguishing Media**

**Suitable Extinguishing Media:** None.

**Unsuitable Extinguishing Media:** For fires near explosives, dry chemical, foams, steam and smothering devices are not effective, can lead to possible explosion and must not be used.



**Special Hazards Arising from the Substance or Mixture**

**Fire Hazard:** There is an extreme risk that explosives involved in a fire may detonate.

**Advice for Firefighters**

**Precautionary Measures:** It is recommended that the amount and location of any explosives stored near a fire be determined prior to committing firefighters to fight the fire.

**Firefighting Instructions:** When fighting the initial fire, not involving explosives, firefighters should follow standard firefighting procedures for the materials involved.

**Hazardous Combustion Products:** No unusual combustion products are expected. However, toxic fumes will be present.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Contact the manufacturer or CHEMTREC. No smoking, open flames or flame/spark producing items in the area.

**For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Isolate the area from unnecessary personnel.

**For Emergency Personnel**

**Protective Equipment:** Provide cleanup crew with proper PPE.

**Emergency Procedures:** Stop the discharge if safe to do so. Ventilate area.

**Emergency Precautions:** Avoid release to the environment.

**Methods and Material for Containment and Cleaning Up:** Contact manufacturer or CHEMTREC.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Additional Hazards when Processed:** Avoid heating explosives in a confined space. Any proposed use of this product in elevated temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. A "hot work" program consistent with OSHA requirements at 29 CFR 1910.252 must be used when performing hot work on explosive process equipment, storage areas or containers related to the intended use.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with soap and water before eating, drinking, or smoking and again when leaving work.



**Conditions for Safe Storage, Including Any Incompatibilities**

- Technical Measures:** Smoking, open flames, and unauthorized sparking or flame-producing devices are prohibited.
- Storage Conditions:** Storage areas should be inspected regularly by an individual trained to identify potential hazards and ensure that all safety and security control measures are being properly implemented. All explosives storage sites must comply with ATF, OSHA or NRCAN regulations.
- Incompatible Materials:** Avoid contamination with combustible or flammable materials, strong acids, strong bases, strong oxidizing agents, reducing agents, chlorinated compounds, copper (any alloys like bronze and brass), metal powders and peroxides.
- Special Rules on Packaging:** Packaging in accordance with USDOT or NRCAN regulations.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Occupational exposure limits:** Not available
- Exposure Controls:**
- Appropriate Engineering Controls:** Product should be handled and used under strictly controlled conditions.
- Personal Protective Equipment:**
- Hand Protection:** Chemically resistant gloves are recommended, but not required.
- Eye Protection:** Safety glasses with side shields or safety goggles.
- Respiratory Protection:** Approved respiratory protection should be worn when recommended by a risk assessment or if irritation is experienced.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Physical and Chemical Properties:**

- Appearance: Small diameter rope with white powdery core
- Odor: None
- Odor threshold: Not available
- Vapor density: Not available
- pH: Not relevant
- Melting point: 140°C (284°F)
- Initial boiling point and boiling range: Not available
- Flash point (oil): Not available
- Evaporation rate: Not relevant
- Flammability: Not available
- Upper / lower flammability or explosive limits: Not available
- Vapor pressure: Not available
- Density: Not relevant
- Solubility: Not soluble in water
- Partition coefficient: n-octol/water: Not available
- Auto-ignition temperature: Not Available
- Decomposition temperature: >150°C (300°F)
- Viscosity: Not relevant
- Explosive properties: Mass detonation hazard when involved in a fire
- Explosion Data – Sensitivity to Mechanical Impact: Sensitive to mechanical impact
- Explosion Data – Sensitivity to Static Discharge: Sensitive to static discharge

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity and Chemical Stability:</b>	Stable and non-reactive under normal conditions of transportation, storage, handling and use.
<b>Possibility of Hazardous Reactions:</b>	Polymerization will not occur.
<b>Conditions to Avoid:</b>	Open flame and elevated temperatures.
<b>Incompatible Materials:</b>	Strong acids
<b>Hazardous Combustion Products:</b>	No unusual combustion products are expected. However, toxic fumes will be present.

**SECTION 11: TOXICOLOGY INFORMATION**

<b>Acute Toxicity:</b>	Not classified
<b>LD50 and LC50 Data:</b>	Not available for product
<b>Skin Corrosion/Irritation:</b>	Not classified
<b>Eye Damage/Irritation:</b>	Not classified
<b>Respiratory or Skin Sensitization:</b>	Not classified
<b>Germ Cell Mutagenicity:</b>	Not classified
<b>Teratogenicity:</b>	Not available
<b>Carcinogenicity:</b>	Not classified
<b>Reproductive Toxicity:</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure):</b>	None
<b>Specific Target Organ Toxicity (Repeated Exposure):</b>	None
<b>Aspiration Hazard:</b>	Not classified
<b>Symptoms/Injuries after Inhalation:</b>	Not expected to be a hazard under normal conditions of use.
<b>Symptoms/Injuries after Skin Contact:</b>	Not expected to be a hazard under normal conditions of use
<b>Symptoms/Injuries after Eye Contact:</b>	Not expected to be a hazard under normal conditions of use.
<b>Symptoms/Injuries after Ingestion:</b>	Not expected to be a hazard under normal conditions of use.
<b>Chronic Symptoms:</b>	None
<b>LD50 and LC50 Data (ingredients):</b>	Not available



## **SECTION 12: ECOLOGY INFORMATION**

Not available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Call manufacturer or CHEMTREC.

## **SECTION 14: TRANSPORTATION INFORMATION**

Agency	UN Number	Proper Shipping Name	Hazard Class	Label Codes	PG	Marine Pollutant	Other
US DOT	UN0065	Cord, detonating, <i>flexible</i>	1.1D	1.1D		No	ERG-112
Canadian TDG	UN0065	Cord, detonating, <i>flexible</i>	1.1D	1.1D		No	
IMDG (Vessel)	UN0065	Cord, detonating, <i>flexible</i>	1.1D	1.1D		No	EmS-No, Fire: F-B Spillage: S-X
IATA (Air)	Contact the manufacturer						

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal Regulations:**

Emergency Planning and Community Right-To-Know Act (EPCRA), a/k/a Superfund Amendments and Reauthorization Act (SARA) Title III  
Toxic Substances Control Act (TSCA)  
TSCA Section 8

SARA Section 311/312	Fire hazard Sudden release of pressure hazard.
TSCA	All the ingredients are on the United States TSCA inventory.

### **Canadian Regulations:**

Domestic Substances List (DSL)  
Workplace Hazardous Materials Information System (WHMIS)

WHMIS Classification	Note: Explosives are regulated by NRCAN and not classified under WHMIS
DSL	Pentaerythritol tetranitrate (PETN) is listed on the Canadian DSL

## **SECTION 16: OTHER INFORMATION, INCLUDING DATE OF LAST REVISION**

This SDS was prepared in accordance with US (29 CFR 1900.1200) and Canadian (WHMIS 2015) requirements.

SDS: P-8                      Initial Issue Date: 06/01/2015                      Last Revision Date: 07/05/2016                      Version: 6

### **Party Responsible for the Preparation of This Document:**

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Cleveland, OH 44122  
216-464-2400

This information is based on Austin Powder Company's current knowledge and is intended to describe the product for the purposes of health and safety requirements only. It should not be construed as guaranteeing any specific property of the product.