Shockstar[™] Shock Tubing

SDS: P-15 Version: 1

Safety Data Sheet

Revision Date: 10/01/2016



SECTION 1: IDENTIFICATION

Product Identifier:Shockstar™ Shock TubingProduct Names and Synonyms:Lead-in-Line, L-I-L, Signal Transmission TubingIntended Use:As part of an commercial explosives device initiation systemIntended 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 Item ("Article"):

Code	Hazard Class	Hazard Category	
H204	Explosives	Division 1.4	

Label Elements

Warning



Hazard Statements

Fire or projection hazard

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, friction, impact or shock. Do not eat, drink or smoke when using this product. Wear eye protection. In case of fire: Evacuate area. Explosion risk in case of fire. 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: None expected

Unknown Acute Toxicity: Not available

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

The hazardous substances are sealed inside a plastic tube. The values in column 3 are shown as a percent of the total weight of tube. The tube length may vary depending on the specific product.

Name	Product Identifier	% (w/w)	
Aluminum	CAS No. 7429-90-5	0-0.2%	
Octogen (HMX)	CAS No. 2691-41-0	0-0.4%	

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 an expected route of exposure.
Skin Contact:	Not an expected route of exposure.
Eye Contact:	Not an expected route of exposure.
Ingestion:	Not an expected route of exposure.
Most Important Sympton	ms and Effects both Acute and Delayed:
Inhalation:	Not an expected route of exposure.
Skin Contact:	Not an expected route of exposure.
Eye Contact:	Not an expected route of exposure.
Ingestion:	Not an expected route of exposure.

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.

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Special Hazards Arising from the Item ("Article"):

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 Precautions:	Avoid release to the environment.
Methods and Material for Containment and Cleaning Up	Pick up containers or units by hand. 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.

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Conditions for Safe Storage, Including Any Incompatibilities

Smoking, open flames, and unauthorized sparking or flame-producing devices are prohibited.
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.
Strong acids, strong bases and organic solvents.
Packaging in accordance with USDOT or NRCAN regulations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:	Not applicable, sealed item
Exposure Controls:	
Appropriate Engineering Controls:	Product should be handled and used under strictly controlled conditions.
Personal Protective Equipment:	
Hand Protection:	Not required.
Eye Protection:	Safety glasses.
Respiratory Protection:	Not required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Physical and Chemical Properties: Flexible ionomer resin plastic tubing with minute Appearance: amount of very fine silver colored powder on interior tube wall Odor: None Odor threshold: Not relevant Vapor density: Not relevant pH: Not relevant Melting point: Not relevant Initial boiling point and boiling range: Not relevant Flash point (oil): Not relevant Evaporation rate: Not relevant Flammability: Not relevant Upper / lower flammability or explosive limits: Not relevant Vapor pressure: Not relevant Density: Not relevant Solubility: Not soluble in water Partition coefficient: n-octol/water: Not relevant Auto-ignition temperature: Not relevant Decomposition temperature): Not relevant 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

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SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGY INFORMATION

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

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	UN0349	Articles, Explosives, N.O.S.	1.4S	1.4S		No	ERG-112
Canadian TDG	UN0349	Articles, Explosives, N.O.S.	1.4S	1.4S		No	
IMDG (Vessel)	UN0349	Articles, Explosives, N.O.S.	1.4S	1.4S		No	EmS-No, Fire: F-B Spillage: S-X
IATA (Air)	Contact th	ne 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	All ingredients are 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-15 Initial Issue Date: 10/01/2016 Last Revision Date: n/a

Party Responsible for the Preparation of This Document:

Austin Powder Company 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.

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