

Product: Pyrotechnic Actuator

Applicable Product Numbers: 1SE series: 192, 601, 603, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615

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Revision: A

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SAFETY DATA SHEET

Pyrotechnic Actuator

SECTION 1 - IDENTIFICATION

- 1.1 Product Identifier:** Pyrotechnic Actuator
 Product Form: Substance
 Other Means of Identification: Bottle cutter, puncturing cutter, wire cutter
- 1.2 Intended Use of the Product:** Cutting, severing, puncturing, or breaking various materials
- 1.3 Manufacturer Name:** EaglePicher Technologies, LLC, 14212 N. Bethel Rd., Seneca, MO 64865
 Website: www.eaglepicher.com
 Email: inquiry@eaglepicher.com
 Telephone: 1-417-623-8000
- 1.4 Emergency Telephone:** CHEMTREC: 1-800-424-9300
- 1.5 Recommended Restrictions:** Use per manufacturer's design and intended use only.

SECTION 2 - HAZARD IDENTIFICATION

Only qualified personnel experienced in the management of explosives should handle or use. Energetic material in the actuator is sealed as a condition of delivery and cannot be released under normal or foreseeable conditions of handling and use, including professional disposal, without destroying the assembly. 1SE603 pyrotechnic actuator is recognized by the US ATF as a Special Explosive Device (SED) and excluded from US explosive laws.

WARNING

Hazard Category: 2C



Hazard Statement

H204 Fire or projection hazard
 H302+H332 Harmful if swallowed or if inhaled
 No health hazards are present when product is used as intended.

Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking.
 P250 Do not subject to shock, impact, friction, electrostatic discharge, high pressure or high temperature.
 P203 Obtain, read and follow all safety instructions before use.
 P375 Fight fire remotely due to the risk of explosion.

Hazards Not Otherwise Classified: None known.

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

This product contains chemicals contained in a sealed device which under normal handling and use conditions will not expose the user to the mixture. Some pyrotechnic actuator products are contained within other articles and are not readily accessible to the user. Ignition of the actuator consumes approximately 100% of the chemical.

Chemical Name	Common Name and Synonyms	C.A.S. Number	%	GHS US classification
Barium styphnate	Barium styphnate, BSM, BaS, styphnic acid, Barium II salt	20236-56-9	100	Acute toxicity (oral), H302 Category 4 Acute toxicity (inhalation: dust, mist), H332 Category 4

SECTION 4 - FIRST AID MEASURES

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

4.1 Description of First-Aid Measures

Inhalation: Not a hazard in normal industrial use.
 Skin contact: Not a hazard in normal industrial use.
 Eye contact: Not a hazard in normal industrial use.
 Ingestion: Not a hazard in normal industrial use.

4.2 Most Important Symptoms and Effects Both Acute and Delayed

Inhalation: Inhalation is likely to cause adverse health effects including but not limited to irritation, difficulty breathing, and unconsciousness.
 Skin contact: Prolonged exposure may cause skin irritation.
 Eye contact: May cause slight irritation to eyes.
 Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: None known.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: N/A	Flammable Limits in Air % by Volume: N/A	Extinguishing Media: Water	Auto-Ignition: 421° F (216° C) – 572° F (300° C)
Special Fire Fighting Procedures	Do not attempt to extinguish explosives fires or fires that have reached cargo or storage areas. Evacuate the area for at least 500 meters (1/3 mile) and let burn. Do not move containers that have been exposed to heat.		
Unusual Fire and Explosion Hazards	Explosive! Under certain conditions, explosives and related dangerous material may be sensitive to shock, impact, friction, electrostatic discharge, high pressure or high temperature. If product is already burning, do not place in confined area or container. Burning explosives or related dangerous material may accelerate to deflagration or detonation.		
Suitable Extinguishing Media	DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Water may be applied through fixed extinguishing system (sprinklers) as long as people need not be present for the system to operate.		

SECTION 6 - ACCIDENTAL RELEASE MEASURES

This pyrotechnic article may deploy when exposed to fire, heat, electrical energy, electrostatic energy, shock, or mechanical loads (crush or impact). In the case of severe damage to the pyrotechnic actuator and release of the pyrotechnic ingredients, remove potential ignition sources. Immediately evacuate area if material catches fire. This energetic composition is less sensitive to ignition sources when properly wetted with water.

Personal Precautions, protective equipment and emergency procedures: Barricade area, remove persons to safety and eliminate all ignition sources. Do not touch or walk through spilled material. Use non-sparking tools and wet paper toweling, cloths or sponges to clean up spills. Do NOT clean up or dispose of, except under supervision of a specialist.

Actuator - Carefully pick up the actuator by the leads and place it in a non-static-generating container.

Pyrotechnic powder - Saturate pyrotechnic material with water (spray bottle). Wipe contaminated surfaces with a wet cloth and place all contents (powder and cloth) in a sealable, non-static generating container. Seal the container to prevent the pyrotechnic material from drying out. .

OTHER PRECAUTIONS: Never attempt to repair, disassemble, machine, or otherwise modify the actuator.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: If the surface of the pyrotechnic actuator is distorted, dented, or punctured before activation, the product must NOT be installed or deployed. Keep away from ignition sources (e.g., fire, heat, electrical energy, shock, friction, impact). Avoid conditions that generate friction, shock, or impact to the powder. The actuator may initiate if exposed to temperatures above 200° F (93° C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning. Do not connect this device to an electrical source improperly. Limit and prevent electrostatic charging or discharge. Consult product installation instructions or request assistance from the supplier. Do not attempt to open or breach this device. Do not misuse or mistreat this device. Do not attempt to make repairs on this device. Consult supplier for return or disposal instructions. Do not attempt to remove or allow damage to the wire leads, if applicable.

Conditions for safe storage, including any incompatibilities: US ATF Special Explosive Device (1SE603); Safeguard from theft, unauthorized use, or unauthorized removal. Keep product cool and dry in storage. Keep the device away from materials that may increase storage hazards. Protect the device and packaging from fire, heat, electrical energy, shock, friction, or impact.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

No regulatory limits apply ; sealed article. Pyrotechnic ingredients in the actuator are sealed from the environment and cannot be released under normal conditions of use including professional disposal without destroying the article.

Exposure Controls: Do not eat, drink or smoke when handling, testing, or installing this product.

Respiratory Protection: None required

Chemical Protective Gloves: None required when handling sealed units.

Eye/Face Protection: Safety glasses meeting ANSI Z87.1 standard recommended.

Other Protective Equipment: None required

Engineering Controls: None required

Administrative Controls: None required

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid
APPEARANCE	N/A
ODOR	None
ODOR THRESHOLD	N/A
PH	N/A
MELTING POINT/FREEZING POINT	N/A
BOILING POINT (760 mm Hg)	N/A
FLASH POINT	N/A
EVAPORATION RATE (butyl acetate=1)	N/A
FLAMMABILITY	N/A
UPPER/LOWER FLAMMABILITY EXPLOSIVE LIMITS	N/A
VAPOR PRESSURE (mm Hg, 25°C)	N/A
VAPOR DENSITY (air=1)	N/A
RELATIVE DENSITY	> 1
SOLUBILITY IN WATER (% by weight)	Insoluble
PARTITION COEFFICIENT: (N-OCTANOL/WATER)	N/A
AUTO IGNITION TEMPERATURE	421° F (216° C) – 572° F (300° C)
DECOMPOSITION TEMPERATURE	> 437° F (225° C)
VISCOSITY	N/A

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: Hazardous polymerization will not occur.

Stability: Stable under normal conditions.

Incompatibility (material to avoid): Avoid strong acids and bases. Addition of fuels (i.e., reactive metals, metal and alkali hydrides) or oxidizers may increase sensitivity.

Hazardous Decomposition Products: Extreme heat, potassium oxide, nitrogen oxides, carbon monoxide and carbon dioxide may be emitted during ignition.

Conditions to Avoid: Shock, impact, friction, electrostatic discharge, high pressure, high temperature, open flame and chemical or physical contamination.

SECTION 11 - TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: No information available.

Acute Effects: No information available

Chronic Effects: No information available

Target Organ Effects: Unknown

Delayed and immediate effects as well as chronic effects from short and long term exposure: No information available.

Likely routes of exposure: Likely routes of exposure are inhalation, eye contact and skin contact. Absorption and ingestion are not likely routes of exposure.

Information on toxicological effects:

Acute Toxicity (Oral): Harmful if swallowed.

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Harmful if inhaled.

LD50 and LC50 Data:

Barium Styphnate (20236-55-9)	
ATE US/CA (oral):	500.0 mg/kg body weight
ATE US/CA (dust, mist):	1.50 mg/l/4h

Skin Corrosion/Irritation: Not classified

pH: 6 – 8

Eye Damage/Irritation: Not classified

pH: 6 – 8

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: This material is harmful orally and can cause adverse health effects or death in significant amounts.

Chronic Symptoms: None known.

SECTION 12 - ECOLOGICAL INFORMATION

- 12.1 Toxicity: Ecology - General: Not classified.
- 12.2 Persistence and Degradability: Not established.
- 12.3 Bioaccumulative Potential: Not established.
- 12.4 Mobility in Soil: No additional information available
- 12.5 Other Adverse Effects: Avoid release to the environment.

SECTION 13- DISPOSAL CONSIDERATIONS

Dispose in accordance with the applicable regulations in country and state. Disposal should be performed by licensed professional disposal firms knowledgeable in federal, state or local requirements of hazardous waste disposal, treatment transportation.

SECTION 14- TRANSPORT INFORMATION

DOT (US)	UN Number	Proper Shipping Name	Hazard Class
	UN0173	Release devices, explosive	1.4S

Emergency Response Guide – Guide 114

Special Precautions: Consult segregation chart if transporting with other Dangerous Goods.

Note: If this product is contained in an article, such as a battery, the Proper Shipping Name and UN number will be different.

SECTION 15- REGULATORY INFORMATION

CERCLA Hazardous Substance List	No
SARA 302/313 Extremely Hazardous Substance:	Not Listed
SARA 304 Emergency Release Notification	Not listed
OSHA Specifically Regulated Substances	No
SARA 311/312 Hazardous Chemical:	Explosive
SARA 313 (TRI Reporting)	Not regulated
TSCA	As a sealed device, TSCA listing is not required.
California Proposition 65:	Not listed

SECTION 16- OTHER INFORMATION

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Revision: A, 2/19/2026

This SDS is intended to provide a summary of our knowledge and guidance regarding the use of this chemical. The information contained here has been compiled from sources considered by EaglePicher Technologies, LLC to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. EaglePicher Technologies, LLC assumes no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the chemical.