



SAFETY DATA SHEET

1. Identification

Product identifier	Lead Centerfire Primer
Synonyms:	Fiocchi Centerfire Primers, 616 or 209 Style Primer
Product Codes:	Fiocchi Small Pistol, Small Rifle, Large Pistol, Shotgun and Large Rifle Primer, 446SMR, 445SMP, 616, 535LP, 535LR
Recommended Use	
Recommended restrictions	Small Arms Ammunition None known.
Manufacturer/Importer/Supplier/Distributor Information	
Company name:	Fiocchi of America
Address	6930 N. Fremont Rd. Ozark, MO 65721
Telephone	417 725 4118
Fax	417 725 1039
Website	http://www.fiocchiusa.com
Emergency phone number	U.S.A: 800-424-9300 Canada: 703-741-5000

2. Hazard(s) Identification

Physical hazards	Explosives	Division 1.4
Health hazards	Acute Toxicity (oral) Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity, Repeat Exposure	Category 4 Category 2 Category 1A Category 2

OSHA defined hazards None known

Label elements
Hazard symbol



Signal Word **DANGER**

Hazard Statement Fire or projection hazard. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs (central nervous system, blood, kidney, reproductive system) through prolonged or repeated exposure.

Precautionary statement

Version #: 01 Revision date: 12/31/2015. Issue date: 12/31/2015.

Prevention	Do not handle until all safety precautions have been read and understood. Keep away from heat. No smoking. Do not subject to shock. Wear eye protection. Do not breathe fumes.
Response	If exposed, concerned or you feel unwell: Get medical attention. In case of fire: Evacuate area. Fight fire with normal precautions from a reasonable distance.
Storage	Store in accordance with applicable fire codes. Keep only in original packaging.
Disposal	Dispose of primer in accordance with local regulations.
Other information	The hazardous components of this product are encased and are not biologically available. Therefore, some health hazards do not apply to the overall product. Decomposition products, including lead containing compounds, are released during the firing of primers. Use only outdoors or in a well-ventilated area. Do not attempt to open or dissect primer, as it may explode causing projectiles dangerous to the eyes, skin and body. Keep stored in factory packaging in tray provided to avoid explosion risk.

3. Composition / Information on Ingredients

Chemical Name	CAS Number	%
Copper	7440-50-8	61.6
Barium Nitrate	10022-31-8	5.0
Lead Styphnate	15245-44-0	4.7
Antimony Sulfide	1345-04-6	1.4

Composition Comments All concentrations are in percent by weight.

4. First Aid Measures

Inhalation	Remove to fresh air. If symptoms occur, get medical attention.
Skin contact	Wash exposed skin with plenty of soap and water. Get medical attention if irritation or other symptoms occur.
Eye contact	Do not rub eyes. Flush eyes with plenty of water. If eye irritation develops and persists, get medical attention.
Ingestion	Rinse mouth thoroughly with water. If symptoms develop get medical attention.

Most important symptoms/effects, acute and delayed

Fragments from fired primer can cause physical injury. When primer is fired or otherwise discharged, dust and/or fumes may be absorbed by the digestive system and can result in both acute and chronic overexposure. Symptoms may include gastrointestinal irritation, nausea, vomiting and diarrhea. High concentrations of dust and/or fumes may irritate throat and respiratory system and cause coughing. Symptoms of chronic exposure to lead include anemia, visual and hearing disturbances, headache, memory loss, fatigue, muscle weakness, tremors, and convulsions. Ingestion of a complete primer can cause irritation to the digestive system, and possibly other unknown health effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information

In case of accident or if you feel unwell, seek medical advice immediately. Ensure that medical personnel are aware of the material(s) involved.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray; Water fog. Class A foam.
Unsuitable extinguishing media	None.
Specific hazards arising from the chemical	May ignite if heated to 250°F (121°C) causing projection of metal fragments. Mass explosion will not occur in factory packaging. Hazardous chemical and toxic by-products from chemical decomposition may be formed during fire. These products vary depending on fire conditions and other combustibles present during fire. These may include smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and lead fumes. Complete ventilation of structure is recommended.
Personal protective equipment	Self-contained breathing apparatus (SCBA) and full structural protective clothing should be worn for any fire or exposure to heat. This includes, but is not limited to, protective coat, pants, boots, firefighting gloves, SCBA with facepiece and helmet, protective hood and eye protection. (NFPA 1971).

Fire suppression guidance

Perform a risk assessment before engaging in offensive firefighting operations. Unless life safety risk or significant risk of property loss is present, consider taking defensive posture, protecting exposures and maintaining safe distance until material is consumed. For further information see the video "Ammunition and the Fire Fighter" by the Sporting Arms and Ammunition Manufacturers' Institute (SAAMI): www.youtube.com/watch?v=3SIOXowwC4c..

Specific methods

Evacuate personnel to a safe area according to pre-determined public protection zones. Refer to pre-incident response and structural plans to determine potential for involvement of other hazardous materials. Direct water streams at product to reduce projectile hazard from exploding cartridges. After the fire is controlled, heated products can still re-ignite and project pieces of metal posing risk to fire-fighters. Full PPE including respiratory protection should be worn during salvage, overhaul and fire investigation. Do not disturb the involved area until the fire is completely extinguished and the product and packaging are allowed to cool down to ambient temperatures.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Eliminate all ignition sources. Wear appropriate personal protective equipment. Damaged primers can explode upon contact creating projectiles dangerous to eyes, skin and body. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up spillage and collect in original tray or submerge in oil. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage**Precautions for safe handling**

Projectiles from fired primer can cause physical injury. Do not handle until safety precautions have been read and understood. Do not subject to mechanical shock. Remove product from service if any of the following conditions occur: corrosion, physical damage, exposure to oil or spray lubricants. Provide appropriate exhaust ventilation. Do not breathe decomposition products. Lead containing compounds are released during the firing of primers. Care should be taken to minimize the potential exposure to lead. Do not taste or swallow. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage

Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated place away from all sources of ignition. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection**Occupational exposure limits**

Chemical Name	CAS Number	ACGIH TLV	OSHA PEL	Other Information
Copper	7440-50-8	0.2 mg/m ³ (fume)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust)	
Barium Nitrate	10022-31-8	0.5 mg/m ³	0.5 mg/m ³	
Lead Styphnate	15245-44-0	None established	None established	
Antimony Sulphide	1345-04-6	0.5 mg/m ³	0.5 mg/m ³	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate protective clothing when cleaning equipment.

Hand protection

Wear protective gloves when cleaning equipment.

Other

Respiratory protection	Wear appropriate respiratory protection when cleaning equipment.
General hygiene Considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Brass Cartridge.
Physical state	Solid.
Form	Cartridge.
Color	Brass.
Odor	None.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point / boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Fire or projection hazard.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	>1
Solubility(ies)	Not applicable.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	250°F / 121°C
Decomposition temperature	Not available.
Viscosity	Not applicable.

10. Stability and Reactivity

Reactivity	May explode with friction, impact, heat, and low level electrical current.
Chemical stability	Risk of explosion by shock, friction, fire or other sources of ignition.
Possibility of hazardous Reactions	Hazardous polymerization does not occur.
Conditions to avoid	Extreme temperatures. Avoid contact with incompatible materials. Heat, sparks, and flames.
Incompatible materials	Strong acids, bases, and oxidizers.
Hazardous decomposition Products	Carbon monoxide, carbon dioxide, oxides of nitrogen, lead fumes.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Fumes may irritate throat and respiratory system. Prolonged inhalation may cause chronic effects.
Skin contact	Contact with decomposition products may cause skin irritation.
Eye contact	Contact with decomposition products may cause eye irritation.
Ingestion	Ingestion may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Projectiles from fired primer can cause puncture wounds. When primer is fired or otherwise discharged, dust and/or fumes may be absorbed by the digestive system and can result in both acute and chronic overexposure. Symptoms may include gastrointestinal

irritation, nausea, vomiting and diarrhea. High concentrations of dust and/or fumes may irritate throat and respiratory system and cause coughing. Symptoms of chronic exposure to lead include anemia, visual and hearing disturbances, headache, memory loss, fatigue, muscle weakness, tremors, and convulsions. Ingestion of a complete primer can cause irritation to the digestive system, and possibly other unknown health effects.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic under normal conditions of use.

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Barium Nitrate	10022-31-8	(ATE) 100 mg/kg (Rat)	No data available	No data available

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation May cause eye irritation.

Respiratory sensitization No data available.

Skin sensitization Not expected to cause skin sensitization under normal conditions of use.

Germ cell mutagenicity This product or any of its ingredients are not known or reported to be mutagenic.

Carcinogenicity The National Toxicology Program (NTP) considers lead compounds reasonably anticipated to be a human carcinogen.

Chemical Name	CAS Number	ACGIH	IARC	NTP
Lead Styphnate	15245-44-0	Not Listed	Lead compounds - Not classifiable (3)	Lead compounds - Reasonably anticipated to be a human carcinogen

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure May cause damage to organs (central nervous system, blood, kidney, reproductive system) through prolonged or repeated exposure.

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Chronic effects Prolonged or repeated exposure to decomposition products may cause chronic effects.

12. Ecological Information

Ecotoxicity Not expected to be hazardous to the aquatic environment in its present form.

Persistence and degradability No data available on product mixture.

Bioaccumulative potential No data available on product mixture.

Mobility in soil No data available on product mixture.

Other adverse effects No other adverse environmental effects known.

13. Disposal Considerations

Disposal instructions

Dispose of in accordance with applicable federal, state, and local regulations. Do not discharge into drains, water courses or onto the ground. Primers should be returned to the package in which they were originally contained. These packages have been specifically designed to protect primers during shipment and storage and also to protect the consumer. If this is not possible, submerge in oil.

Local disposal regulations

Dispose of in accordance with local regulations.

Waste from residues / unused products

Care must be taken to prevent environmental contamination from the use of this material. The user has the responsibility to dispose of unused material, residues, and containers in compliance with all relevant laws and regulations. Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

Contaminated packaging

Dispose of in accordance with federal, state and local regulations.

14. Transport Information

DOT
 UN Number: UN 0044
 UN Proper Shipping Name: Primers, cap type
 Transport Hazard Class(es): 1.4S
 Packing Group: II
 Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained.
 Other information: Above classification relates to the specific packaging in which this material is supplied by the manufacturer. If the material is repackaged, this classification may no longer be relevant.

IATA
 UN Number: UN 0044
 UN Proper Shipping Name: Primers, cap type
 Transport Hazard Class(es): 1.4S
 Packing Group: II
 Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained.
 Other information: Above classification relates to the specific packaging in which this material is supplied by the manufacturer. If the material is repackaged, this classification may no longer be relevant.

IMDG
 UN Number: UN0044
 UN Proper Shipping Name: Primers, cap type
 Transport Hazard Class(es): 1.4S
 Packing Group: II
 Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained.
 Other information: Above classification relates to the specific packaging in which this material is supplied by the manufacturer. If the material is repackaged, this classification may no longer be relevant.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory Information**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (5000 lbs); Zinc (1000 lbs)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - No
 Delayed Hazard - Yes
 Fire Hazard - No
 Pressure Hazard - Yes
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Copper (7440-50-8); Zinc (7440-66-6)

US state regulations**US. Massachusetts RTK - Substance List**

Copper (7440-50-8); Zinc (7440-66-6); Barium Nitrate (10022-31-8); Lead styphnate (15245-44-0); Antimony Sulfide (1345-06-4)

US. New Jersey Worker and Community Right-to-Know Act

Copper (7440-50-8); Zinc (7440-66-6); Barium Nitrate (10022-31-8); Lead styphnate (15245-44-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Copper (7440-50-8); Zinc (7440-66-6); Barium Nitrate (10022-31-8); Antimony Sulfide (1345-06-4)

US. Rhode Island RTK

Copper (7440-50-8); Zinc (7440-66-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

Toxic Substance Control Act

Components of this product are listed on the United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory.

16. Other Information, including date of preparation or last revision**Issue date** 12/31/2015**Revision date** 12/31/2015**Version #** 01**Disclaimer**

The information in this safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. The information in the sheet was written based on the best knowledge and experience currently available and is believed to be reliable and up to date as of the date of publication, but no warranty is expressed or implied. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.