



SAFETY DATA SHEET

1. Identification

Product identifier	Components: Bullets
Synonyms:	Fiocchi Exacta, Fiocchi Extrema, Fiocchi Shooting Dynamics
Product Codes:	Bullets - Lead with Copper Alloy Jacket
Recommended Use	Small Arms Ammunition
Recommended restrictions	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	None known	
Health hazards	Carcinogenicity Reproductive Toxicity Specific Target Organ Toxicity, Repeat Exposure	Category 2 Category 1A Category 1
OSHA defined hazards	None known	
Label elements		
Hazard symbol	A red diamond-shaped hazard symbol containing a black silhouette of a human figure with a white starburst on the chest, indicating a health hazard.	
Signal Word	DANGER	
Hazard Statement	Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs (central nervous system, blood, kidney, reproductive system) through prolonged or repeated exposure.	

Precautionary statement

Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Do not breathe dust/fume. Use only outdoors or in well-ventilated area. Wear protective gloves/protect/eye protection. Wash hands thoroughly after handling.
Response	If exposed, concerned or feel unwell: Get medical attention or call a doctor.
Storage	Keep only in original packaging.
Disposal	Dispose of contents in accordance with local regulations.

Supplemental information Some of the hazardous components of this product are encased and are not biologically available. Decomposition products, including lead, are released during the firing of cartridges. Use only outdoors or in a well-ventilated area.

3. Composition / Information on Ingredients

Chemical Name	CAS Number	%
Lead	7439-92-1	64-70
Copper	7440-50-8	28-29
Antimony	7440-36-0	0-6
Zinc	7440-66-6	1-2

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 ammunition can cause physical injury. When ammunition 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 may include anemia, visual and hearing disturbances, headache, memory loss, fatigue, muscle weakness, tremors, and convulsions. Ingestion of ammunition 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	Use extinguishing media that is appropriate for the surrounding materials and local environment.
Unsuitable extinguishing media	None.
Specific hazards arising from the chemical	Hazardous decomposition products may include lead fumes. Complete ventilation of structure is recommended.
Personal protective equipment	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Fire suppression guidance	This product is not a flammable or combustible material.
Specific methods	Evacuate personnel to a safe area according to pre-determined public protection zones.

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

Wear appropriate personal protective equipment. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Sweep up spillage and collect in suitable container for disposal. 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 ammunition can cause physical injury. Do not handle until safety precautions have been read and understood. Provide appropriate exhaust ventilation. Do not breathe decomposition products. Lead containing compounds are released during the firing of cartridges. Care should be taken to minimize 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. 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
Lead	7439-92-1	0.05 mg/m ³	0.05 mg/m ³	
Copper	7440-50-8	0.2 mg/m ³ (fume) 1 mg/m ³ (dust)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust)	
Antimony	7440-36-0	0.5 mg/m ³	0.5 mg/m ³	
Zinc	7440-66-0	2 mg/m ³ (respirable fraction)	5 mg/m ³ (fume) 15 mg/m ³ (dust)	

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.

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	Yellow, Copper or Gray projectile
Physical state	Solid.
Form	Projectile
Color	Gray to copper
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)	Not applicable.
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	No available.
Decomposition temperature	Not available.
Viscosity	Not applicable.

10. Stability and Reactivity

Reactivity	This product is non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous Reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid contact with incompatible materials.
Incompatible materials	Strong acids, bases, and oxidizers.
Hazardous decomposition Products	Carbon monoxide, carbon dioxide, lead fumes.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust/fumes may irritate throat and respiratory system. Prolonged inhalation may cause chronic effects.
Skin contact	Contact with dust may cause skin irritation.
Eye contact	Contact with dust may cause eye irritation.
Ingestion	Ingestion may cause gastrointestinal irritation. Ingestion of dust may cause chronic effects.

Symptoms related to the physical, chemical and toxicological characteristics

Projectiles from fired ammunition can cause wounds. When ammunition 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 ammunition 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.
Skin corrosion/irritation	Dust/fume may cause skin irritation.
Serious eye damage/eye irritation	Dust/fume may cause eye irritation.
Respiratory sensitization	No data available.
Skin sensitization	Not expected to cause skin sensitization.
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	7439-92-1	Lead and Inorganic Compounds (as PB) – Confirmed animal	Possibly carcinogenic to humans (2B)	Reasonably anticipated to be a human carcinogen

carcinogen (A3)

Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Causes 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. Dusts may be toxic to the aquatic environment.
Persistence and degradability	No data available on product.
Bioaccumulative potential	No data available on product.
Mobility in soil	No data available on product.
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.

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	NOT REGULATED
IATA	NOT REGULATED
IMDG	NOT REGULATED

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)

Lead (10 lbs); Antimony (5000 lbs); 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 - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Lead (7439-92-1); Antimony (7440-36-0); Copper (7440-50-8); Zinc (7440-66-6)

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

Lead (7439-92-1); Antimony (7440-36-0); Copper (7440-50-8); Zinc (7440-66-6)

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

Lead (7439-92-1); Antimony (7440-36-0); Copper (7440-50-8); Zinc (7440-66-6)

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

Lead (7439-92-1); Antimony (7440-36-0); Copper (7440-50-8); Zinc (7440-66-6)

US. Rhode Island RTK

Lead (7439-92-1); Antimony (7440-36-0); 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** 01/04/2019**Revision date** N/A**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.