

1. Identification

SMALL ARMS AMMUNITION - LEAD, DOUBLE BASE **Product identifier**

Synonyms: Fiocchi Exacta, Fiocchi Extrema, Fiocchi Shooting Dynamics

Product Codes: Centerfire Pistol, Centerfire Rifle, and Rimfire Ammunition

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 417 725 1039 Fax

Website http://www.fiocchiusa.com **Emergency phone number** U.S.A: 800-424-9300

Canada: 703-741-5000

2. Hazard(s) Identification

Physical hazards Division 1.4 **Explosives**

Health hazards Acute Toxicity (inhalation) Category 3

Category 1A Skin Sensitization Carcinogenicity Category 2 Reproductive Toxicity Category 1A Specific Target Organ Toxicity, Category 1

Repeat Exposure

Specific Target Organ Toxicity, Category 2

Repeat Exposure

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.

Causes damage to organs (central nervous system, blood, kidney, reproductive system) through

prolonged or repeated exposure.

Precautionary statement

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. Wash hands

thoroughly after handling. Do not eat, drink or smoke when using this product.

Response In case of fire: Evacuate area. Fight fire with normal precautions from a reasonable distance. If

exposed, concerned or you feel unwell: Call a doctor or get medical attention.

Storage Store in accordance with applicable fire codes. Keep only in original packaging.

Disposal Dispose of ammunition in accordance with local regulations.

Supplemental 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, 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	%
Copper	7440-50-8	57.4
Lead	7439-92-1	44.2
Nitrocellulose	9004-70-0	15.7
Nitroglycerin	55-63-0	6.7
Dibutyl Phthalate	84-74-2	0 - 1.6
Ethyl Centralite (diethyldiphenylurea)	85-98-3	1.6
Rosin	8050-09-7	0.8

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, decomposition products 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. A drop in blood pressure, headache, cyanosis and mental confusion may result from nitroglycerin in the product.

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 Unsuitable extinguishing media Specific hazards arising from

the chemical

Straight water stream; Water fog. Class A foam.

None.

May ignite if heated to 250°F (121°C) causing projection of metal fragments. Mass explosion will not occur. 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 ammunition 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 ammunition 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 cartridges. 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)	
Lead	7439-92-1	0.05 mg/m ³	0.05 mg/m ³	
Nitrocellulose	9004-70-0	None established	None established	
Nitroglycerin	55-63-0	0.05 ppm *Skin Designation	0.2 ppm 2.0 mg/m ³ *OSHA limit applies to skin	*Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
Dibutyl Phthalate	84-74-2	5 mg/m ³	5 mg/m ³	
Ethyl Centralite (diethyldiphenylurea)	85-98-3	None established	None established	_
Rosin	8050-09-7	*None established	*None established	*Exposure by all routes should be carefully controlled to levels as low as possible.

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).

Wear appropriate protective clothing when cleaning equipment. Skin protection

Hand protection

Other

Wear protective gloves when cleaning equipment.

Respiratory protection Wear appropriate respiratory protection when cleaning equipment.

Always observe good personal hygiene measures, such as washing after handling the material and before General hygiene Considerations

eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and Chemical Properties

Appearance Brass Casing. Physical state Solid. **Form** Casing Color Brass.

SDS US

Version #: 01 Revision date: 12/31/2015 Issue date: 12/31/2015. 4/8 Odor None.

Odor threshold

pH

Not available.

Not applicable.

Melting point/freezing point

Initial boiling point / boiling range

Flash point

Evaporation rate

Not applicable.

Not applicable.

Not applicable.

Flammability (solid, gas) Fire or projection hazard.

Upper/lower flammability or explosive limitsNot applicable.Vapor pressureNot applicable.Vapor densityNot applicable.

Relative density >1

Solubility(ies) Not applicable.

Partition coefficient

(n-octanol/water)Not applicable.Auto-ignition temperature250°F / 121°CDecomposition temperatureNot available.ViscosityNot applicable.

10. Stability and Reactivity

Reactivity May explode with friction, impact, heat, and 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. Heat, sparks, and flames. Avoid contact with incompatible materials.

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 Decomposition products may irritate throat and respiratory system. Prolonged inhalation may cause chronic effects.

Skin contactContact with decomposition products may cause skin irritation.Eye contactContact 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 ammunition can cause puncture 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. A drop in blood pressure, headache, cyanosis and mental confusion may result from nitroglycerin in the product.

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
Nitroglycerin	55-63-0	685 mg/kg (Rat)	>2000 mg/k (Rat)	(ATE)
				0.05 mg/l/4h

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye

irritation

May cause eye irritation.

Respiratory sensitization

No data available.

Skin sensitization

Germ cell mutagenicity

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

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

Carcinogenicity

Suspected of causing cancer.

Chemical Name	CAS Number	ACGIH	IARC	NTP
Lead	7439-92-1	Lead and Inorganic	Possibly carcinogenic to	Reasonably anticipated
		Compounds (as PB) –	humans (2B)	to be a human
		Confirmed animal		carcinogen
		carcinogen (A3)		

Reproductive toxicityMay 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.

Persistence and degradabilityNo data available on product mixture.Bioaccumulative potentialNo data available on product mixture.Mobility in soilNo 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.

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 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

Not applicable to encased items.

14. Transport Information

DOT

UN Number: UN0012

Cartridges Small Arms **UN Proper Shipping Name:**

Transport Hazard Class(es): LQ or 1.4S

Packing Group: Ш

Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained.

IATA

UN Number: UN0012

UN Proper Shipping Name: Cartridges Small Arms

Transport Hazard Class(es): 1.4S Packing Group:

Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained

IMDG

UN Number: UN0012

UN Proper Shipping Name: Cartridges Small Arms

Transport Hazard Class(es): 1.4S Packing Group: Ш

Special precautions for user: This material is a dangerous good for transport. All involved staff must be appropriately trained.

Transport in bulk according to

Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

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); Lead (10 lbs); Zinc (1000 lbs); Nitroglycerine (10 lbs); Dibutyl phthalate (10 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); Lead (7439-92-1); Zinc (7440-66-6); Nitroglycerin (55-63-0); Dibutyl Phthalate (84-74-2)

US state regulations

US. Massachusetts RTK - Substance List

Copper (7440-50-8); Lead (7439-92-1); Zinc (7440-66-6); Nitrocellulose (9004-70-0); Nitroglycerin (55-63-0); Dibutyl Phthalate (84-74-2)

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

Copper (7440-50-8); Lead (7439-92-1); Zinc (7440-66-6); Nitrocellulose (9004-70-0); Nitroglycerin (55-63-0); Dibutyl Phthalate (84-74-2)

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

Copper (7440-50-8); Lead (7439-92-1); Zinc (7440-66-6); Nitrocellulose (9004-70-0); Nitroglycerin (55-63-0); Dibutyl Phthalate (84-74-2)

US. Rhode Island RTK

Copper (7440-50-8); Lead (7439-92-1); Zinc (7440-66-6); Nitroglycerin (55-63-0); Dibutyl Phthalate (84-74-2)

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.

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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.