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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **Boxer type primer with NEROXIN composition (packed in plastic trays)**

1.2 Relevant identified uses of the product

Primers for the production of ammunition intended for sports, hunting and defensive purposes and for reloading.

1.3 Detailed information about supplier of safety data sheet

Producer and supplier of safety data sheet:
Sellier & Bellot Int. a.s.
Lidická 667
258 01 Vlašim
Czech Republic
Phone: +420 317 891 111
contact to responsible persons for this SDS: kasparova@sellier-bellot.cz
kratochvil@sellier-bellot.cz

1.4 Emergency telephone number

Toxicological information centre (TIS): Department of Occupational Medicine at General University Hospital in Prague, 24 hours service - phone +420 224 91 92 93 or +420 224 91 54 02.

2. Hazards identification

According to Article 3 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council the primers are considered to be an article with an inseparable part of a dangerous mixture pressed into the primer.
Under recommended conditions of storage, handling and use, the substances are not intended to be released in accordance with Article 7 par. 1 b) of the REACH Regulation.

Chemical materials and mixtures used for primer production comply with the requirements of REACH Regulation.

2.1 Classification of the product

According to Regulation (EC) No 1272/2008 (CLP)

Hazard class:	**Article containing an explosive**
Hazard category:	Division 1.4
Code:	Expl. 1.4

2.2 Label elements

According to Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms:



Signal word: **WARNING**

Hazard statements: **H 204** Fire or projection hazard.

Precautionary statements:

P 210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P 250 Do not subject to grinding, shock and friction.
P 280 Wear protective gloves, protective clothing and eye protection.

2.3 Other hazards

The used raw materials and mixtures do not fulfil the criteria for classification as PBT or vPvB. in accordance with Annex XIII, Regulation (EC) No. 1907/2006 (REACH)
The used raw materials and mixtures do not fulfil the criteria for classification as as PMT/vPVM.
The used raw materials and mixtures do not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
The product contains substances SVHC – for more information refer to Section 3.

Risk of explosion may be caused by fire, by a spark, flame or other sources of ignition (e.g. static electricity, mechanical/electrical device).

3. Composition/information on ingredients

The primer is formed by a brass primer cup filled with dry priming composition with the trade name NEROXIN. The composition is covered with a paper cover disc. A three-winged anvil is pressed into the filled cup. All primer parts create a solid unit.

NEROXIN priming composition: mixture of TNRO, tetrazene, barium nitrate, antimony trisulfide, lead oxides and other compounds.

Used materials (chemical substances and mixtures) classified as hazardous are specified in the following table:

Primer composition (priming mixture), integral part of the primer

Chemical substance	CAS No.	EC No.	% in the priming mixture	Classification according to Regulation (EC) No 1272/2008 (CLP)
lead styphnate* (2,4,6-trinitrobenzene-1,3-diolate)	15245-44-0	239-290-0	39 - 45	Expl. 1.1; H201 Repr. 1A; H360 - Df Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic1; H410
tetrazene**	109-27-3	203-659-4	2,5 - 4	Expl. 1.1; H201
antimony trisulfide	1345-04-6	215-713-4	0 - 21	Acute Tox. 4; H332 Acute Tox. 4; H302 Aquatic Chronic 2; H411
barium nitrate	10022-31-8	233-020-5	35 - 46	Ox. Sol. 2; H272 Acute Tox. 4; H302 Acute Tox. 4; H332
lead (II, IV) oxide (orange lead)	1314-41-6	215-235-6	0,2 – 0,5	Ox. Sol. 3; H272 Repr. 1A; H360 - Df Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic1; H410
lead dioxide	1309-60-0	215-174-5	0,5 – 1,4	Ox. Sol. 3; H272 Repr. 1A; H360 - Df Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic1; H410
penthrite	78-11-5	201-084-3	0 – 5	Expl. 1.1; H201

*Sellier & Bellot Int. a.s. has the substance lead styphnate (CAS No. 15245-44-0) registered. Registration number: 01-2119543737-30-0003
**Sellier & Bellot Int. a.s. has the substance tetrazene (CAS No. 109-27-3) registered. Registration number:
01-2120767928-32-0002

Primers contain lead 2,4,6-trinitrobenzene-1,3-diolate (lead styphnate, CAS No. 15245-44-0) in quantities exceeding 0,1 % of the total weight of the primer.
Further primers contain the priming composition substance lead (II, IV) oxide, CAS No. 1314-41-6.
The amount does not exceed 0,1 % of the total weight of the primer.
These substances are included in the “Candidate List of Substances of Very High Concern” (issued by the European Chemicals Agency).

For full wording of H and EUH phrases refer to Section 16.

4. First aid measures

Under recommended way of use, the primers pose no health hazard.
First aid may be necessary when substances are accidentally released from primers.

Inhalation:
Interrupt exposure, remove the affected person to fresh air. In case of unconsciousness, start resuscitating (cardiopulmonary resuscitation) and seek medical advice.

Skin contact:
Remove contaminated clothing and wash thoroughly with soap and water (lukewarm if possible). Do not use solvents or thinners. If the problems persist, seek medical attention.

Eye contact:
Flush eyes with a gentle stream of water for at least 15 minutes. Use your thumb and index finger to hold eyelids wide open. Remove contact lenses, if present and easy to do before flushing. Seek specialized medical attention.

Ingestion:
Rinse mouth with fresh water, drink ca. 0,2-0,3 l of water (lukewarm if possible) with a spoon of liquid soap and powder or crushed activated charcoal corresponding to ca. 5 tablets. Induce vomiting within one hour from ingestion. Do not induce vomiting during unconsciousness, convulsions or general bad state. Administer activated charcoal regardless of whether vomiting was induced or not. Seek medical attention.

5. Firefighting measures

5.1 Extinguishing media

Water spray, extinguishing powder, foam or just soil.

5.2 Special hazards arising from the substance or mixture

Nitrogen and carbon oxides may be released during combustion.

In case of fire, the individual primers are activated without transition to mass explosion (collective explosion). As spray of individual primer elements with low weight may occur, fire should be extinguished from a safe distance (at least 5 metres), protective clothing and eye and hearing protection must be used. Prevent movement of unauthorized persons in the vicinity of fire.

During transport the crew must not try to extinguish fire of the load (transported primers).
There is a risk of eye damage or burns to unprotected skin.

5.3 Advice for firefighters

Use fireproof turnout gear with face shield (e.g. OL 2 type), self-contained breathing apparatus (or resirator) and hearing protection.

Fire characteristics of materials:

NEROXIN priming composition ignition temperature 260-270 ºC

Inserts (plastic): burn when ignited.

Packaging (cardboard, layered cardboard): packaging must be protected from sources of heat with temperature exceeding 100 ºC during storage, ignition temperature 427 ºC.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Prevent free movement of persons in the place of release. Prevent contact of spilled primers or priming compositions with open fire, electric sparks and chemically aggressive substances.

Personal Care after Exposure: There are no medical conditions known to be aggravated by exposure to this product in solid form.

6.2 Environmental precautions

Avoid contamination of soil and water with priming compositions.

6.3 Methods and material for containment and cleaning up

Sweep up the spilled primers, priming compositions or parts of primers carefully and place them into leakproof packages as waste (this waste is considered dangerous waste and must be handled as dangerous waste according to ADR, including the used package), do not raise dust, ventilate the area. Dispose of waste at an approved waste disposal facility in accordance with applicable regulations. Prevent release into the sewer and the environment. Use tools made of non-sparking materials.

6.4 Reference to other sections

For more information refer to Section 13.

7. Handling and storage

7.1 Precautions for safe handling

Handle primers according to regulations for use of ammunition. The users must be made familiar with these regulations. There is no danger during normal handling. Do not eat, drink, smoke or use open fire during handling. The primers must be protected from the effects of radiating heat and mechanical or electrical sparks. The primers may not be exposed to impact or mechanical friction. **It is prohibited to disassemble, modify or rough-handle the primers!**

Wash your hands with lukewarm water and soap after work and especially before eating, it is recommended that you use protective hand cream after washing.

7.2 Conditions for safe storage, including any incompatibilities

The primers must be stored in their original packaging in dry, clean and ventilated storerooms and they must be protected against weather effects, soil moisture, radiating heat of heating elements and against direct sunshine. They may not be exposed to mechanical impacts. Relative air humidity in storerooms must not exceed 60 %, air temperature must be between 5 ºC and 30 ºC. The primers must be stored so that safety requirements of applicable regulations are met.

7.3 Specific end uses

See section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limits compliant with Government Decree No. 361/2007 Coll., as amended

Chemical substance	CAS No.	EC No.	PEL (mg/m3)	NPK-P (mg/m3)	legislation
carbon oxide	630-08-0	211-128-3	23	117	Government decree No. 361/2007 Coll. (Czech Republic)
carbon dioxide	124-38-9	204-696-9	9000	45000	
dust			10	150	

Exposure limits of individual substances are specified in national regulations of the Czech Republic. Exposure limits are given for individual substances most contained in post-fire fumes according to national legislation.

Exposure limits for individual substances contained in the priming composition are not given in Table 8.1.1. Under recommended way of use, these substances are not released or their quantity is insignificant.

8.1.2 Monitoring procedures
Comply with Government Decree and abide with all contained regulations.

8.1.3 Biological limit values
Not defined for the Czech Republic nor the EU.

8.1.4 DNEL and PNEC values
DNEL for carbon oxide is the same as PEL value, see table above in chapter 8.1.1.

8.2 Exposure controls

8.2.1. Appropriate technical controls
Sealing, local exhaustion, ventilation.

8.2.2 Personal protective equipment

Hand protection – wear chemical-resistant gloves.

Body protection – wear work clothing.

Other - do not eat, drink, smoke or use open fire when handling primers. Observe personal hygiene principles. Eye protection and hearing protection is recommended during shooting.
In case of high concentration of smoke, it is recommended to use an approved respirator. Store the primers away from ignition sources.

8.2.3. Environmental exposure control

Observe the handling and storage conditions. In particular, prevent leakage into waterways, soil and sewers from the area.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	compact whole
Form	solid
Odour	no
Specific weight	not applicable
Bulk density	not applicable
Boiling point	not applicable
Melting point	not applicable
Vapour density	not applicable
Evaporation rate	not applicable
Solubility in water	not applicable
pH	not applicable

9.2. Other information

In case of accidental fire, the individual primers are activated without the transition to mass explosion (collective explosion).

10. Stability and reactivity

10.1 Reactivity

Article containing an explosive. The product is stable under normal conditions of use (pressure, temperature).

10.2 Chemical stability

The product is stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No data.

10. 4 Conditions to avoid

Rough handling, effects of intense radiating heat, flame, mechanical or electrical sparks, static electricity and effects of impact or friction.

10.5 Incompatible materials

Chemically aggressive acidic or alkaline substances and strong oxidizing agents.

10.6 Hazardous decomposition products

Irritating gases and aerosols – CO, CO_2, NO_x and metal oxides – may be released during combustion.

11. Toxicological information

11.1. Information on toxicological effects

Not available.

Hazardous substances contained in the product may be harmful, however, as they are encapsulated in the product, their releasing is not expected under normal conditions of use.

It is prohibited to disassemble the primers.

11.2. Information on further hazardousness

Adverse effects to health caused by properties inducing disruption of endocrine system: none.

12. Ecological information

12.1. Toxicity

Not available.

Hazardous substances contained in the product may be harmful to the environment, however, as they are encapsulated in the product, their releasing into the environment is not expected under normal conditions of use.

12.2. Persistence and degradability

N/A

12.3. Bioaccumulative potential

N/A

12.4. Mobility in soil

N/A

12.5. Results of PBT and vPvB assessment

Based on available data, the classification criteria are not met. The product does not contain substances classified as PBT/vPvB.

12.6. Properties causing disruption of endocrine system

Based on available data, the classification criteria are not met. The product does not contain substances that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment method

Primers and waste parts are considered dangerous. The user of this product is responsible for using this product and handling its remnants (waste) and the packaging. Proceed in compliance with all relevant local and national regulations and laws in respect to handling and storage of the products and their waste.

Non-contaminated packagings and initiated primers are not considered dangerous and can be recycled.

Primers that have not been initiated may not be handed over for disposal to an unauthorised person. Proceed according to regulations on the use and disposal of ammunition.

14. Transport information

Transport by road and rail (ADR/RID)

Classification	1.4 S
UN No.	UN 0044
Official designation	PRIMERS, CUP TYPE
Safety label	no. 1.4
Packaging group	not applicable (packagings must meet requirements for packaging group II)

Remark: Primers packed in plastic trays may be transported in accordance with 1.1.3.6 ADR – Exemptions related to quantities carried per transport unit.

Transport by inland waterways and sea (ADN/IMDG-Code)

Classification	1.4 S
UN No.	UN 0044
Official designation	PRIMERS, CUP TYPE
Safety label	no. 1.4
Packaging group II)	not applicable (packagings must meet requirements for packaging group

Transport by air (ICAO/IATA-DGR)

Classification	1.4 S
UN No.	UN 0044
Official designation	PRIMERS, CUP TYPE
Safety label	no. 1.4
Packaging instructions	PGI 133
Packaging group II)	not applicable (packagings must meet requirements for packaging group

Remark: Transport packaging up to 25 kg net weight can be transported by personal air transport and up to 100 kg net weight can be transported by freight air transport.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation:

REACH regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended

CLP regulation: Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended

European Waste Catalogue (EWC)

Directive 2012/18/EU of 4 July 2012 on the control of major-accident hazards involving dangerous substances – SEVESO III

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) No.64/1987 Coll, as amended

Legislation in the Czech Republic:

Government Decree No. 361/2007 Coll., laying down conditions for the protection of employees‘ health at work, as amended

Act No. 258/2000 Coll., on public health protection, as amended

Act No. 262/2006 Coll., the labour code, as amended

Act No. 201/2012 Coll., on air pollution, as amended

Act No. 350/2011 Coll., on chemical substances and chemical compositions, as amended

Decree of the Ministry of Interior No. 246/2001, Coll., on fire prevention and related legal provisions, as amended

Act No. 119/2002 Coll., on firearms and ammunition, as amended

Act No. 61/1988 Coll., of the Czech National Council on mining activities, explosives and the state mining administration, as amended

15.2 Chemical Safety Assessment

Has not been done.

16. Other information

H statements used in Section 3.

Classification according to Regulation (EC) No 1272/2008 (CLP):

H 201	Explosive; mass explosion hazard.
H 272	May intensify fire; oxidiser.
H 302	Harmful if swallowed.
H 332	Harmful if inhaled.
H 373	May cause damage to organs.
H 400	Very toxic to aquatic life.
H 410	Very toxic to aquatic life with long lasting effects.
H 411	Toxic to aquatic life with long lasting effects.
H 360-Df	May damage fertility or the unborn child.

The information provided in this MSDS is based on our current knowledge and experience. It describes the product with the focus on safe handling of the product - its use, storage, handling and disposal, and cannot be considered guaranteed values. The user is responsible for compliance with valid laws and regulations when using our products.

Update 11/25 - logo, sections 1.3, 1.4, 2.3, 8.1.1., 11.2, 12.5, 12.6.
Update 01/26 – section 8.1.1.