

Trade name: Cartridges green MAXXTech (cartridges) 9x17 mm, 50 pcs

Version: 2 / DK

Date revised: 11.12.2024

Substance number:: 21205

Replaces Version: 1 / DK

Print date: 11.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Cartridges green MAXXTech (cartridges) 9x17 mm, 50 pcs

Substance / product identification

PR-No. 21205, 21206, 21208

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

cattle stunning ammunition

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Albert Kerbl GmbH

Felizenzell 9

84428 Buchbach

Telephone no. +49 8086 933-100

Fax no. +49 8086 933-500

Information provided Albert Kerbl GmbH Tel.: 0049-(0)8086-933-302

by / telephone

E-mail address of sdb-team@kerbl.com

person responsible

for this SDS

1.4. Emergency telephone number

Joint poison information center for the states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia c/o HELIOS Klinikum Erfurt Nordhäuser Strasse 74

Tel.: (03 61) 73 07 30 - Fax: (03 61) 7 30 73 17

E-Mail: ggiz@ggiz-erfurt.de - Internet: www.ggiz-erfurt.de

Nødtelefon: +45 82 12 12 12 (Giftlinjen, Bispebjerg Hospital)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Expl. 1.4

H204

Voluntary product information following the Safety Data Sheet format

According to Article 3 of Regulation No 1907/2006 of the European Parliament and of the Council (REACH), cartridges are considered to be an article consisting of three basic components:

Cartridge case, propellant charge (powder) and primer.

An inseparable part of the cartridge are dangerous mixtures inside (mixture in the primer and other mixture in the cartridge - propellant charge).

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2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H204 Fire or projection hazard.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P234 Keep only in original packaging.

P240 Ground and bond container and receiving equipment.

P250.9 Do not subject to grinding/shock/friction.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P372+P380+P373 In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.

P501 Dispose of contents/container to a hazardous or special waste collection point (problem waste collection point), in accordance with local, regional, national and/or international regulations.

2.3. Other hazards

Extreme risk of explosion by shock, friction, fire or other sources of ignition. /. The cartridge contains the potentially hazardous components (primer and propellant powder), which are hermetically sealed from the environment so that they can only be released by destroying the product. Cartridge is covered on the top by green, yellow or red marking compound. which are hermetically sealed from the environment so that they can only be released by destroying the product. / which are hermetically sealed from the environment so that they can only be released by destroying the product.. Heat or impact against the primer and strong mechanical stress that lead to damage to the cartridge case or mechanical attempts to remove the primer cap can lead to immediate ignition. which are hermetically sealed from the environment so that they can only be released by destroying the product.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

The cartridge consists of a copper alloy cartridge case and a small primer, Double bottom propellant charge with smokeless powder and marking agent.

Net mass of explosive substances per cartridge:

max. 0,5 g

Total mass per cartridge:

approx. 2,81 g

Hazardous ingredients

CASE (content per cartridge)

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Copper

CAS No. 7440-50-8

EINECS no. 231-159-6

Concentration \geq 53,02 \leq 54,8 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

zinc

CAS No. 7440-66-6

EINECS no. 231-175-3

Concentration \geq 19,92 \leq 21,7 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

PRIMER**Barium nitrate**

CAS No. 10022-31-8

EINECS no. 233-020-5

Concentration appr. 31,5 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Acute Tox. 4 H332

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note 1, A

Antimony trisulphide

CAS No. 1345-04-6

EINECS no. 215-713-4

Concentration appr. 11 %

Classification (Regulation (EC) No. 1272/2008)

Carc. 2 H351

Aquatic Chronic 3 H412

LEAD dioxide

CAS No. 1309-60-0

EINECS no. 215-174-5

Concentration appr. 7 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 1 H410

Acute Tox. 4 H302

Acute Tox. 4 H332

Aquatic Acute 1 H400

Repr. 1A H360Df

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STOT RE 2 H373

Tretracene

CAS No. 109-27-3
EINECS no. 203-659-4
Concentration appr. 5,5 %
Classification (Regulation (EC) No. 1272/2008)
Unst. Expl. H200

lead styphnate

CAS No. 15245-44-0
EINECS no. 239-290-0
Concentration appr. 41 %
Classification (Regulation (EC) No. 1272/2008)
Unst. Expl. H200
Acute Tox. 4 H302
Acute Tox. 4 H332
Repr. 1A H360Df
STOT RE 2 H373
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Additional remarks:
CLP Regulation (EC) No 1272/2008, Annex VI, Note 1

P.E.T.N.

CAS No. 78-11-5
EINECS no. 201-084-3
Concentration appr. 4 %
Classification (Regulation (EC) No. 1272/2008)
Unst. Expl. H200

PROPELLANT

Nitrocellulose

EINECS no. 936-908-7
Concentration >= 60 %
Classification (Regulation (EC) No. 1272/2008)
Expl. 1.1 H201

nitroglycerine

CAS No. 55-63-0
EINECS no. 200-240-8
Concentration <= 35 %
Classification (Regulation (EC) No. 1272/2008)
Acute Tox. 1 H310
Acute Tox. 2 H300
Acute Tox. 2 H330

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STOT RE 2	H373
Aquatic Chronic 2	H411
Expl. 1.1	H201
Unst. Expl.	H200

Centralite I

CAS No.	85-98-3
EINECS no.	201-645-2
Concentration	>= 0 <= 7 %
Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 4	H302
Aquatic Chronic 3	H412

diphenylamine

CAS No.	122-39-4
EINECS no.	204-539-4
Concentration	<= 1,65 %
Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 3	H301
Acute Tox. 3	H311
Acute Tox. 3	H331
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Other information

Nonhazardous additives <= 4% --- The product is an article within the meaning of Article 3 No. 3 of the REACH Regulation and thus not to be labelled according to the CLP regulation. The compilation of the Safety Data sheet is not required according to Article 31 REACH Regulation for articles and is done on a voluntary basis. --- articles and is done on a voluntary basis. General: Trajectory and flight direction of cartridges ignited outside weapons are not known. articles and is done on a voluntary basis.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

In case of persistent symptoms consult doctor.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash skin with plenty of soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting - aspiration hazard. Take medical treatment.

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Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Dry powder, Used from safe distance.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: dense black smoke; Exposure to decomposition products may be hazardous to health. Do not breathe fumes. Exposure to fire can cause containers to burst / explode.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in Sections 7 and 8. Use explosion-proof equipment/fittings and non-sparking tools. Take action to prevent static discharges. A propellant charge released (removed) from a cartridge is very poisonous when exposed to the skin and is poisonous when inhaled or swallowed. It is easily inflammable and there is danger of explosion. . In low layers and when not compressed they will quickly burn down. The primer is potentially very explosive. It is easily inflammable and there is danger of explosion.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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ear defenders; Wear antistatic shoes and work clothing.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Physical state** solid**Colour** According to product specification**Melting point**

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

blow-sensitiv

Upper and lower explosive limits

Remarks not determined

Flash point

Value > 100 °C

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Remarks not determined

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Remarks not determined

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

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Solubility in water

Remarks insoluble

Explosive properties

evaluation explosive

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

Heat or blow onto primer cap will lead to the ignition of single cartridges.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep away from: acid. Lye. Oil. aromatic carbon hydrides

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

The cloud following a reaction contains carbon monoxide and nitric gases. The deposits contain lead and barium compounds.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

Remarks Based on available data, the classification criteria are not met.

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Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Remarks Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

No data available.

Other information

No adverse health effects are expected from this product provided it is handled properly and industrial hygiene measures are observed.

The contained ingredients can be harmful for humanx, but they are hermetically enclosed in the article and can't be released. The dismantling of the article is prohibited.

There is no data available on the product apart from the information given in this subsection.

SECTION 12: Ecological information

12.1. Toxicity

General information

The product is not expected to be hazardous to the environment.

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

No data available.

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12.7. Other adverse effects

General information

not determined

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 16 04 01* waste ammunition

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.




Fully ignited cartridges may be disposed of as normal waste, they are not dangerous waste.

Unfired cartridges which cannot be used for their original purpose any more are to be handed over to authorized persons in adherence to the local regulations, item 14 of the dangerous goods regulations is especially to be adhered to.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	0014	0014	0014
14.2. UN proper shipping name	CARTRIDGES FOR TOOLS, BLANK	CARTRIDGES FOR TOOLS, BLANK	CARTRIDGES FOR TOOLS, BLANK
14.3. Transport hazard class(es)	1	1.4S	1.4S
Label			
Limited Quantity	5 kg	5 kg	
Transport category	4		
14.5. Environmental hazards	-		-
Tunnel restriction code	E		

Information for all modes of transport

14.6. Special precautions for user

The relevant transport regulations have to be considered.

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Other information

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) Not water hazardous

Remarks Product, not applicable.

Other regulations, restrictions and prohibition regulations

National: Cartridges are subjected to marking obligation and have been released according to the CIP regulations.

International: The passing on to other persons, the receipt and the handling are subject to the regulations valid in the appropriate country.

EU regulations:

Directive 2013/29/EU on the making available on the market of pyrotechnic articles.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H200	Unstable explosive.
H201	Explosive; mass explosion hazard.
H204	Fire or projection hazard.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 1	Acute toxicity, Category 1
Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3

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Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Carc. 2	Carcinogenicity, Category 2
Expl. 1.1	Explosive, Division 1.1
Expl. 1.4	Explosive, Division 1.4
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
Unst. Expl.	Explosive, unstable

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.