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PRODUCT SAFETY INFORMATION SHEET

CARTRIDGE 7.62 X 51 MM BLANK

REF : PSIS 7,62 x 51 mm-BLANK EN	VERSION: 1.0	REVISION : 22/03/2022	PRINTED: 22/03/2022	1 / 21
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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Article
Trade name : cartridge 7.62 x 51 mm Blank

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : CARTRIDGES FOR WEAPONS, BLANK

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of product safety information sheet

FN HERSTAL, S.A.
Voie de Liège 33
4040 HERSTAL
Belgique
info@fnherstal.com

1.4. Emergency telephone number

Emergency number : FN Herstal - Security : +32 (0)4 240 81 11

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Explosives, Division 1.4 H204

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Fire or projection hazard.

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS01

Signal word (CLP) : Warning
Hazard statements (CLP) : H204 - Fire or projection hazard.
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P370 - In case of fire: Evacuate area.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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Component	
glycerol trinitrate; nitroglycerine (55-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
dibutyl phthalate; DBP (84-74-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
LEAD DIOXIDE	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate(15245-44-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
dibutyl phthalate; DBP(84-74-2)	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
LEAD DIOXIDE	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Copper alloys	CAS-No.: 7440-50-8 EC-No.: 231-159-6 EC Index-No.: 029-024-00-X REACH-no: 01-2119480154-42	60 – 75	Not classified
Zinc	CAS-No.: 7440-66-6 EC-No.: 231-175-3	20 – 35	Not classified
cellulose nitrate; nitrocellulose	EC Index-No.: 603-037-00-6	5 – 15	Expl. 1.1, H201
glycerol trinitrate; nitroglycerine	CAS-No.: 55-63-0 EC-No.: 200-240-8 EC Index-No.: 603-034-00-X REACH-no: 01-2119488893-18	≤ 2	Unst. Expl., H200 Acute Tox. 2 (Inhalation), H330 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Oral), H300 STOT RE 2, H373 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BARIUM NITRATE	CAS-No.: 10022-31-8 EC-No.: 233-020-5 EC Index-No.: 056-002-00-7 REACH-no: 01-2119986880-22	≤ 0,2	Ox. Liq. 2, H272 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate substance listed as REACH Candidate (Lead styphnate)	CAS-No.: 15245-44-0 EC-No.: 239-290-0 EC Index-No.: 609-019-00-4	≤ 0,2	Unst. Expl., H200 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
diphenylamine	CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5 REACH-no: 01-2119488966-13	≤ 0,1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
dibutyl phthalate; DBP substance listed as REACH Candidate (Dibutyl phthalate (DBP)) substance listed in REACH Annex XIV (Dibutyl phthalate (DBP)) substance with a Community workplace exposure limit; substance identified as having endocrine disrupting properties	CAS-No.: 84-74-2 EC-No.: 201-557-4 EC Index-No.: 607-318-00-4	≤ 0,1	Repr. 1B, H360Df Aquatic Acute 1, H400
antimony sulphide	CAS-No.: 1345-04-6 EC-No.: 215-713-4	≤ 0,1	STOT RE 1, H372
LEAD DIOXIDE	EC Index-No.: 082-001-00-6	≤ 0,1	Ox. Liq. 2, H272 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Repr. 1A, H360Df STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
tetrazene	CAS-No.: 31330-63-9	≤ 0,1	Expl. 1.1, H201 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
pentaerythritol tetranitrate; pentaerythrite tetranitrate; P.E.T.N.	CAS-No.: 78-11-5 EC-No.: 201-084-3 EC Index-No.: 603-035-00-5	≤ 0,1	Unst. Expl., H200

Specific concentration limits:

Name	Product identifier	Specific concentration limits
LEAD DIOXIDE	EC Index-No.: 082-001-00-6	(0,5 ≤ C ≤ 100) STOT RE 2, H373 (2,5 ≤ C ≤ 100) Repr. 2, H361f

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: First aid measures are only required if the ingredients are released or if the product is used or fired in such a way as to cause gas, discharges or projectiles to be produced.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Get medical advice/attention.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Explosion risk in case of fire.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	: In case of fire: evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Access forbidden to unauthorised personnel. No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Emergency procedures : No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Mechanically recover the product.
Methods for cleaning up	: Mechanically recover the product. Clean contaminated surfaces with an excess of water.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Does not require any specific or particular technical measures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not subject to grinding, shock, friction. Wear recommended personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Does not require any specific or particular technical measures.
Storage conditions	: Store in a well-ventilated place. Store in a dry, cool area. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

glycerol trinitrate; nitroglycerine (55-63-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Glycerol trinitrate
IOEL TWA [ppm]	0,01 ppm
IOEL STEL	0,19 mg/m ³
IOEL STEL [ppm]	0,02 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Belgium - Occupational Exposure Limits	
Local name	Nitroglycérine (Trinitrate de glycérol) # Nitroglycerine (Glyceroltrinitraat)
OEL TWA	0,095 mg/m ³
OEL TWA [ppm]	0,01 ppm
OEL STEL	0,19 mg/m ³
OEL STEL [ppm]	0,02 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
France - Occupational Exposure Limits	
Local name	Nitroglycérine (Trinitrate de glycérol)
VME (OEL TWA)	0,095 mg/m ³
VME (OEL TWA) [ppm]	0,01 ppm

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glycerol trinitrate; nitroglycerine (55-63-0)	
VLE (OEL C/STEL)	0,19 mg/m ³
VLE (OEL C/STEL) [ppm]	0,02 ppm
Remark	Valeurs règlementaires indicatives; possibilité d'une pénétration cutanée importante
Regulatory reference	Circulaire du Ministère du travail (réf.: Arrête du 27 septembre 2019)
Slovenia - Occupational Exposure Limits	
OEL STEL	1,88 mg/m ³
OEL STEL [ppm]	0,2 ppm
Switzerland - Occupational Exposure Limits	
Local name	Glycerintrinitrat
MAK (OEL TWA) [1]	0,094 mg/m ³ 0,094 mg/m ³
MAK (OEL TWA) [2]	0,01 ppm 0,01 ppm
KZGW (OEL STEL)	0,094 mg/m ³ 0,094 mg/m ³
KZGW (OEL STEL) [ppm]	0,01 ppm 0,01 ppm
Remark	H B SS _C - Vasodij ^{KT} HU - NIOSH, OSHA
diphenylamine (122-39-4)	
Belgium - Occupational Exposure Limits	
Local name	Diphénylamine # Difénylamine
OEL TWA	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
France - Occupational Exposure Limits	
Local name	Diphénylamine
VME (OEL TWA)	10 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
dibutyl phthalate; DBP (84-74-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Di-n-butyl phthalate
IOEL TWA	0,58 mg/m ³
IOEL TWA [ppm]	0,05 ppm
Remark	(Year of adoption 2016)
Regulatory reference	SCOEL Recommendations
EU - Biological Limit Value (BLV)	
Local name	Di-n-butyl phthalate
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs

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dibutyl phthalate; DBP (84-74-2)	
Belgium - Occupational Exposure Limits	
Local name	Phtalate de dibutyle # Dibutylftalaat
OEL TWA	5 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
France - Occupational Exposure Limits	
Local name	Phtalate de dibutyle
VME (OEL TWA)	5 mg/m ³
Remark	Valeurs recommandées/admises; substance classée toxique pour la reproduction de catégorie 1B
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Poland - Occupational Exposure Limits	
NDSch (OEL STEL)	10 mg/m ³
LEAD DIOXIDE	
Belgium - Biological limit values	
Local name	Plomb et ses composés ioniques # Lood en ionenverbindingen van lood
BLV	70 µg/100ml La mesure de la plombémie par spectrométrie d'absorption ou par une méthode donnant des résultats équivalents # Meting van het bloedloodgehalte (PbB) aan de hand van absorptiespectrometrie of een methode die gelijkwaardige resultaten oplevert
Remark	Une surveillance de la santé est assurée si: - l'exposition à une concentration de plomb dans l'air est supérieure à 0,075 mg/m ³ , calculée comme une moyenne pondérée en fonction du temps sur une base de quarante heures par semaine ou - une plombémie individuelle supérieure à 40 µg Pb/100 ml de sang est mesurée chez les travailleurs. # Gezondheidstoezicht wordt uitgeoefend wanneer: - de blootstelling aan loodconcentratie in de lucht groter is dan 0,075 mg/m ³ , berekend als een tijdgewogen gemiddelde over 40 uur per week, of - een individueel bloedloodgehalte van meer dan 40 µg Pb/100 ml bloed bij de werknemers wordt gemeten.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
France - Occupational Exposure Limits	
Local name	Plomb métallique et ses composés
VME (OEL TWA)	0,1 mg/m ³ (Limite pondérale définie en plomb métal (Pb))
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)	
Belgium - Biological limit values	
Local name	Plomb et ses composés ioniques # Lood en ionenverbindingen van lood
BLV	70 µg/100ml La mesure de la plombémie par spectrométrie d'absorption ou par une méthode donnant des résultats équivalents # Meting van het bloedloodgehalte (PbB) aan de hand van absorptiespectrometrie of een methode die gelijkwaardige resultaten oplevert

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lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)	
Remark	Une surveillance de la santé est assurée si: - l'exposition à une concentration de plomb dans l'air est supérieure à 0,075 mg/m ³ , calculée comme une moyenne pondérée en fonction du temps sur une base de quarante heures par semaine ou - une plombémie individuelle supérieure à 40 µg Pb/100 ml de sang est mesurée chez les travailleurs. # Gezondheidstoezicht wordt uitgeoefend wanneer: - de blootstelling aan loodconcentratie in de lucht groter is dan 0,075 mg/m ³ , berekend als een tijdgewogen gemiddelde over 40 uur per week, of - een individueel bloedloodgehalte van meer dan 40 µg Pb/100 ml bloed bij de werknemers wordt gemeten.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
France - Occupational Exposure Limits	
Local name	Plomb métallique et ses composés
VME (OEL TWA)	0,1 mg/m ³ (Limite pondérale définie en plomb métal (Pb))
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Copper alloys (7440-50-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Copper
IOEL TWA	0,01 mg/m ³ (respirable fraction)
Remark	(Year of adoption 2014)
Regulatory reference	SCOEL Recommendations
Belgium - Occupational Exposure Limits	
Local name	Cuivre (en Cu) # Koper (als Cu)
OEL TWA	0,2 mg/m ³ (fumées) # (rook) 1 mg/m ³ (poussières et brouillards de) # (stof en nevel)
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	Kobber
OEL TWA [1]	1 mg/m ³ pulver og støv 0,1 mg/m ³ beregnet som Cu
France - Occupational Exposure Limits	
Local name	Cuivre
VME (OEL TWA)	0,2 mg/m ³ (fumées) 1 mg/m ³ (poussières), en Cu
VLE (OEL C/STEL)	2 mg/m ³ (poussières), en Cu
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Ireland - Occupational Exposure Limits	
OEL STEL	2 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0,2 mg/m ³ Fume (Cu) 1 mg/m ³ Dusts and mists (as Cu)

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Zinc (7440-66-6)	
France - Occupational Exposure Limits	
Local name	Oxyde de zinc (fumées)
VME (OEL TWA)	5 mg/m ³
United Kingdom - Occupational Exposure Limits	
Local name	Zinc oxide, fume
WEL TWA (OEL TWA) [1]	5 mg/m ³
WEL STEL (OEL STEL)	10 mg/m ³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Does not require any specific or particular technical measures.

8.2.2. Personal protection equipment

Personal protective equipment:

Protection is not necessary unless the product is damaged.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Non flammable.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Fire or projection hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Avoid shock and friction.

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

glycerol trinitrate; nitroglycerine (55-63-0)

LD50 dermal rat	> 9560 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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dibutyl phthalate; DBP (84-74-2)

LD50 oral rat	6279 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	≥ 15,68 mg/l air Animal: rat

antimony sulphide (1345-04-6)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5,04 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

BARIUM NITRATE (10022-31-8)

LD50 oral rat	50 – 300 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 1 mg/l/4h (OECD 403 method)

LEAD DIOXIDE

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
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lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5,05 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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Copper alloys (7440-50-8)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: other:
LC50 Inhalation - Rat	> 5,11 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method), Remarks on results: other:

Zinc (7440-66-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5,41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

LEAD DIOXIDE	
IARC group	2A - Probably carcinogenic to humans
Reproductive toxicity	: Not classified

dibutyl phthalate; DBP (84-74-2)	
LOAEL (animal/male, F1)	52 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (animal/female, F0/P)	385 mg/kg bodyweight Animal: rat, Animal sex: female
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

glycerol trinitrate; nitroglycerine (55-63-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	114,6 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEL (subchronic, oral, animal/female, 90 days)	96,4 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

diphenylamine (122-39-4)	
NOAEL (oral, rat, 90 days)	3 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

dibutyl phthalate; DBP (84-74-2)	
LOAEL (oral, rat, 90 days)	752 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	152 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

antimony sulphide (1345-04-6)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	≥ 0,0045 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0,00051 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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LEAD DIOXIDE	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Zinc (7440-66-6)	
LOAEL (oral, rat, 90 days)	53,8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	31,52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
pentaerythritol tetranitrate; pentaerythrite tetranitrate; P.E.T.N. (78-11-5)	
NOAEL (subchronic, oral, animal/male, 90 days)	4000 – 8100 mg/kg bodyweight Animal: other., Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	5100 – 9700 mg/kg bodyweight Animal: other., Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not classified
cartridge 7.62 x 51 mm Blank	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

glycerol trinitrate; nitroglycerine (55-63-0)	
LC50 - Fish [1]	3,58 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	1,9 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 96h - Algae [1]	1,15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5,48 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	3,23 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
diphenylamine (122-39-4)	
EC50 - Crustacea [1]	2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	2,17 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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dibutyl phthalate; DBP (84-74-2)	
EC50 - Crustacea [1]	≈ 2,99 mg/l Test organisms (species): other: Mysisidopsis bahia (marine test species), Daphnia magna and Paratanytarsus parthenogenetica
EC50 72h - Algae [1]	8,38 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	2,12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	0,811 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,158 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

antimony sulphide (1345-04-6)	
LC50 - Fish [1]	14,4 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	6,9 mg/l Test organisms (species): other:
EC50 72h - Algae [1]	> 36,6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

BARIUM NITRATE (10022-31-8)	
EC50 - Crustacea [1]	16 – 18 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 72h - Algae [1]	> 1,15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 30,1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	2,9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

lead 2,4,6-trinitro-m-phenylene dioxide; lead 2,4,6-trinitroresorcinoxide; lead styphnate (15245-44-0)	
LC50 - Fish [1]	1170 µg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
LC50 - Fish [2]	107 µg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	7,02 mg/l Test organisms (species): Daphnia magna

pentaerythritol tetranitrate; pentaerythrite tetranitrate; P.E.T.N. (78-11-5)	
LC50 - Fish [1]	≈ 926 mg/l Test organisms (species): Pimephales promelas

12.2. Persistence and degradability

diphenylamine (122-39-4)	
Persistence and degradability	0 % biodegradation (14 days).

12.3. Bioaccumulative potential

diphenylamine (122-39-4)	
Partition coefficient n-octanol/water (Log Pow)	3,5

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : UN 0014
 UN-No. (IMDG) : UN 0014
 UN-No. (IATA) : UN 0014
 UN-No. (ADN) : UN 0014
 UN-No. (RID) : UN 0014

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CARTRIDGES FOR WEAPONS, BLANK
 Proper Shipping Name (IMDG) : CARTRIDGES FOR WEAPONS, BLANK
 Proper Shipping Name (IATA) : Cartridges for weapons, blank
 Proper Shipping Name (ADN) : CARTRIDGES, SMALL ARMS, BLANK
 Proper Shipping Name (RID) : CARTRIDGES, SMALL ARMS, BLANK
 Transport document description (ADR) : UN 0014 CARTRIDGES FOR WEAPONS, BLANK, 1.4S, (E)
 Transport document description (IMDG) : UN 0014 CARTRIDGES FOR WEAPONS, BLANK, 1.4S
 Transport document description (IATA) : UN 0014 Cartridges for weapons, blank, 1.4S
 Transport document description (ADN) : UN 0014 CARTRIDGES, SMALL ARMS, BLANK, 1.4S
 Transport document description (RID) : UN 0014 CARTRIDGES, SMALL ARMS, BLANK, 1.4S

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 1.4S
 Danger labels (ADR) : 1.4S



IMDG

Transport hazard class(es) (IMDG) : 1.4S
 Danger labels (IMDG) : 1.4S



IATA

Transport hazard class(es) (IATA) : 1.4S
 Danger labels (IATA) : 1.4S

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ADN

Transport hazard class(es) (ADN) : 1.4S
 Danger labels (ADN) : 1.4S



RID

Transport hazard class(es) (RID) : 1.4S
 Danger labels (RID) : 1.4S



14.4. Packing group

Packing group (ADR) : Not applicable
 Packing group (IMDG) : Not applicable
 Packing group (IATA) : Not applicable
 Packing group (ADN) : Not applicable
 Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
 Marine pollutant : No
 Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 1.4S
 Special provisions (ADR) : 364
 Limited quantities (ADR) : 5kg
 Excepted quantities (ADR) : E0
 Packing instructions (ADR) : P130, LP101
 Mixed packing provisions (ADR) : MP23, MP24
 Transport category (ADR) : 4
 Special provisions for carriage - Loading, unloading and handling (ADR) : CV1, CV2, CV3
 Special provisions for carriage - Operation (ADR) : S1
 Tunnel restriction code (ADR) : E

Transport by sea

Special provisions (IMDG) : 364
 Limited quantities (IMDG) : 5 kg
 Excepted quantities (IMDG) : E0
 Packing instructions (IMDG) : P130
 EmS-No. (Fire) : F-B
 EmS-No. (Spillage) : S-X
 Stowage category (IMDG) : 01
 Stowage and handling (IMDG) : SW1

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Properties and observations (IMDG) : See glossary of terms in appendix B.

Air transport

PCA Excepted quantities (IATA) : E0
 PCA Limited quantities (IATA) : Forbidden
 PCA limited quantity max net quantity (IATA) : Forbidden
 PCA packing instructions (IATA) : 130
 PCA max net quantity (IATA) : 25kg
 CAO packing instructions (IATA) : 130
 CAO max net quantity (IATA) : 100kg
 Special provisions (IATA) : A802
 ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : 1.4S
 Special provisions (ADN) : 364
 Limited quantities (ADN) : 5 kg
 Excepted quantities (ADN) : E0
 Equipment required (ADN) : PP
 Provisions prior to loading (ADN) : LO01
 Provisions for handling and stowage of the cargo (ADN) : HA01, HA03
 Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : 1.4S
 Special provisions (RID) : 364
 Limited quantities (RID) : 5kg
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P130, LP101
 Mixed packing provisions (RID) : MP23, MP24
 Transport category (RID) : 4
 Special provisions for carriage – Packages (RID) : W2
 Special provisions for carriage - Loading, unloading and handling (RID) : CW1
 Colis express (express parcels) (RID) : CE1
 Hazard identification number (RID) : 1.4S

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains one substance (s) from the list of candidate substances of REACH: Dibutyl phthalate (DBP) (EC 201-557-4, CAS 84-74-2), Lead styphnate (EC 239-290-0, CAS 15245-44-0)

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals: Diphenylamine (122-39-4), Lead compounds (15245-44-0)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

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Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Potassium nitrate	7757-79-1	2834 21 00	ex 3824 99 96

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf
Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

France	
Occupational diseases	
Code	Description
RG 72	Diseases resulting from exposure to nitrates of glycols and glycerol

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : dibutyl phthalate (DBP) is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : dibutyl phthalate (DBP) is listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Switzerland

Storage class (LK) : LK 1 - Explosives

Chemicals Ordinance (SR 813.11) : Group 1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level

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Abbreviations and acronyms:	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1

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Full text of H- and EUH-statements:	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Expl. 1.1	Explosives, Division 1.1
Expl. 1.4	Explosives, Division 1.4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H200	Unstable explosives.
H201	Explosive; mass explosion hazard.
H204	Fire or projection hazard.
H272	May intensify fire; oxidiser.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
Ox. Liq. 2	Oxidising Liquids, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
Unst. Expl.	Explosives, Unstable explosives

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