

I N D I R E C T A I R C A R R I E R C E R T I F I C A T E

INTERGLOBAL FORWARDING SERVICES INC
1A COLONY ROAD
JERSEY CITY, NJ 07305
FMC # 2747
TELEPHONE NUMBER : 2018588560
TSA APPROVAL NUMBER: EA9402060

Airline: C.A.L. CARGO AIR LINES LTD

Air Waybill : 700-74170891	Our Reference: 02FFAE24111829
Scheduled Flt: 0722	Departure : 04 JUN 24
Origin : JFK	Destination : TLV
Pieces : 4	Gross Wt : 3772.9 K

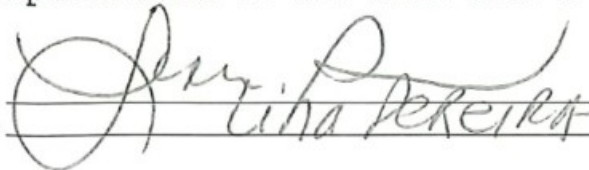
Total Number and name of each unknown shipper represented is 0

Items being offered for transportation less than 16ounces 0

"INTERGLOBAL FORWARDING SERVICES INC is in compliance with its TSA-approved security program and all applicable security directives. Our number assigned by TSA is EA9402060. All cargo tendered in conjunction with this certification was either 1) accepted from a known shipper or an unknown shipper in accordance with TSA requirements specified in the Indirect Air Carrier Standard Security Program or 2) accepted under transfer from another aircraft operator, foreign air carrier, or IAC operating under a TSA-approved or accepted security program. The individual whose name appears below certifies that he or she is an employee or authorized representative of INTERGLOBAL FORWARDING SERVICES INC and understands that any fraudulent or false statement made in connection with this certification may subject this individual and INTERGLOBAL FORWARDING SERVICES INC to both (1) civil penalties under 49 CFR 1540.103(b) and (2) fines and/or imprisonment of not more than 5 years under 18 USC 1001."

Signature of IAC Rep.

Print name of IAC Rep.



Date

5/22/24

Accepting Airline: C.A.L. CARGO AIR LINES LTD

Airline representative's Signature and ID number: _____

700 |JFK| 7417 0891

700-74170891

Shipper's Name and Address VISTA OUTDOOR SALES LLC 1 VISTA WAY ANOKA MN 55303 46-4740605		Shipper's Account Number		Not Negotiable Air Waybill		CAL CARGO AILINES LTD C/O LUFTHANSA BUILDING 261 JFK INTL AIRPORT JAMAICA NY TEL. NO.:	
Consignee's Name and Address IMI SYSTEMS LTD 64 BIALIK BLVD RAMAT HASHARON 47100 ISRAEL 500100581		Consignee's Account Number		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity			
Issuing Carrier's Agent Name and City INTERGLOBAL FORWARDING SERVICES INC 1A COLONY ROAD JERSEY CITY, NJ 07305		Accounting Information FILE# 02FFAE24111829 FLT # 0722 SHP REF 720001708/2406556 DATE 04 JUN 24 BILL IMIISR					
Agent's IATA Code PMC # 2747 01-1-9839-0012/		Account No.					
Airport of Departure (Addr. of First Carrier) and Requested Routing J.F. KENNEDY AIRPORT				Prepared By LINA			
To TLV		By First Carrier C.A.L. CARGO AIR LIN		To TLV		By C.A.L. CARGO AIR LIN	
Airport of Destination BEN GURION AIRPORT		Requested Flight/Date 0722/04		Currency USD		Declared Value for Carriage NVD	
				Amount of Insurance XXX		Declared Value for Customs [REDACTED]	
Handling Information DANGEROUS GOODS AS PER ASSOCIATED SHIPPER'S DECLARATION LOT # 020991 PO# 720001708 SREF:2406556 OVERPACK USED							
These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Ultimate destination ISRAEL						Diversion contrary to U.S. law prohibited	
No. of Pieces RCP	Gross Weight	Kg Lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate Charge	Nature and Quantity of Goods (incl. Dimensions or Volume)
4	3772.9	K			3773.0	4.80	UN0044 PRIMERS, CAP TYPE CLASS 1.4S, P/I: 133 EX2005030083 OVERPACK USED HS#9306.30
AES X20240521045862							
4	3772.9						
Prepaid		Weight Charge		Collect		Other Charges	
18110.40						MANUAL MAWB INP (C) 12.00 DANGEROUS GOODS (C) 100.00 FUEL SURCHARGE (C) 1131.90	
Valuation Charge							
Tax							
Total Other Charges Due Agent							
Total Other Charges Due Carrier							
1243.90							
Total Prepaid							
19354.30							
Currency Conversion Rates							
CC Charges in Dest. Currency							
For Carriers Use only at Destination							
Charges at Destination							
Total Collect Charges							

ORIGINAL (FOR SHIPPER)

700-74170891

Vista Outdoor Sales LLC

1 Vista Way, Anoka, MN 55303

Accounts Receivable: accountsreceivable@vistaoutdoor.com
Customer Service: (800)322-2342
Fax: (763)323-3890
Tax ID: 46-4740605
Duns: 079331239
UEI: ENR9ZAAGMWJ5

Remit To:

Vista Outdoor Sales LLC
P.O. Box 734147
Chicago, IL 60673-4147
USA

Shipped From:
1 Vista Way
Anoka, MN 55303
USA

Invoice

Invoice # INV002406556
Invoice Date: 5/21/2024
Order # SO016774699
Order Date: 1/8/2024
Page: 1 of 2
Customer # 221681
Customer Order # 720001708

Sold To:

IMI SYSTEMS
POB: 1044
4711001
RAMAT HASHARON,47100
Israel

Ship To:

IMI SYSTEMS LTD
YITZHAK PLANT
64 BIALIK BLVD

RAMAT HASHARON,47100
Israel

Tracking Number:	See below	Discount Terms:	Net Terms:	Net 30
Shipped Via:	ODFL		Net Due Date:	6/20/2024
Customer Reference:				

Description	SKU or Part #	Quantity		UOM	Price	Unit Weight	Extended Weight	Extended Amount
		Quantity	Shipped					
PRIMER NO.35 OEM	321	2,000,000.	2,000,000.	EA		0.00	8200.00	
		00	00					

Quantity : 2,000,000.00 Packing slip No. : PK002472145 Ship date : 5/21/2024

Excise Tax Not Included

Total Weight 8,200.00

Sales subtotal amount
Sales Tax
Total charges
Total

Any shortages should be reported within 20 days of shipment from our facilities.

Vista Outdoor Sales LLC

1 Vista Way, Anoka, MN 55303

Accounts Receivable: accountsreceivable@vistaoutdoor.com
Customer Service: (800)322-2342
Fax: (763)323-3890
Tax ID: 46-4740605
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Remit To:

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P.O. Box 734147
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Shipped From:
1 Vista Way
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USA

Invoice

Invoice # INV002406556
Invoice Date: 5/21/2024
Order # SO016774699
Order Date: 1/8/2024
Page: 2 of 2
Customer # 221681
Customer Order # 720001708

The country of ultimate destination: ISRAEL

The end user: IMI Systems

Authorization: D1265312

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise be disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

INVOICE PAYABLE IN U.S. DOLLARS ONLY.

COUNTRY OF ORIGIN: USA UNLESS OTHERWISE SPECIFIED.

TITLE AND RISK PASS TO BUYER WHEN DELIVERED TO INITIAL INLAND CARRIER AT OUR DOCK UNLESS OTHERWISE SPECIFIED

INCOTERMS 2020: FCA, Vista Outdoor

INLAND FREIGHT PREPAID TO FORWARDER'S WAREHOUSE WHERE APPLICABLE.

EXEMPTION FTR 30.37(a) APPLICABLE FOR NON-LICENSABLE ITEMS UNDER \$2500 PER INDIVIDUAL SCHEDULE B NUMBER

PER PRIMER/CASE AGREEMENT OCEAN FREIGHT PAID TO ISRAELI PORT BY VISTA OUTDOOR - IF AIR SHIPMENT IS SELECTED INCOTERMS WILL BE FCA, FREIGHT TO BE PAID BY IMI SYSTEMS

REMIT-TO INFORMATION

WIRE / ACH PAYMENT ADDRESS:

BANK NAME: JPMORGAN CHASE

Account Name: Vista Outdoor Sales LLC

Account Number: 313511898

Routing Number:

- ACH Transactions: 071000013

- Domestic Wire Transfers: 021000021

- SWIFT Code for International Wire Transfers: CHASUS33

Invoice Declaration

I, the undersigned, hereby declare that unless otherwise indicated, the goods covered by this document fully comply with the rules of origin and the other provisions of the Agreement on the Establishment of a Free Trade Area between the Government of Israel and the Government of the United States of America.

(X) The Exporter (whether the exporter is the producer or not)

() The Producer (is not the exporter)

Tax identification: 46474060500

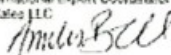
Name: Amber Bell

Title: International Export Coordinator

E-mail: Amber.Bell@VistaOutdoor.com

Signature: Amber Bell

Amber Bell, International Export Coordinator
Vista Outdoor Sales LLC



Tracking Number: 99969570685

Vista Outdoor Sales LLC is a subsidiary of Vista Outdoor Inc. All sales subject to Vista Outdoor General Terms and Conditions of Sale including but not limited to the following: FOB Origin (freight prepaid where applicable); Title and risk of loss transfer to the Buyer upon delivery to the carrier; No goods sold on consignment. No merchandise may be returned without prior authorization and returns may be subject to a restocking fee. Contact Customer Service for return authorization. Sales personnel are not authorized to make adjustments or alter terms of sale. No unauthorized discounts or offsets allowed. Customer agrees to pay a late fee of 1.5% (18% annum) or the highest amount allowed by law for past due balances. Customer agrees to pay all cost of collection including attorney's fees, court costs and other collection expenses. Products from Vista Outdoor Sales LLC DBA The Kinetic Group may be controlled under the International Traffic in Arms Regulations and/or the Export Administration Regulations, and is subject to Export Control Laws of the U.S. Government. Transfer of controlled products by any means to a foreign person, whether in the U.S. or abroad, without an export license or other approval from the U.S. Department of State or the U.S. Department of Commerce, is prohibited. Any terms on any purchase order are hereby rejected and replaced with the foregoing terms, which are deemed accepted by acceptance of the goods. <http://vistaoutdoor.com/wp-content/uploads/2018/08/Vista-Outdoor-Terms-Conditions-of-Sale-August-2018.pdf>

Shipped From: VISTA OUTDOOR SALES LLC
1 VISTA WAY

Packing List

ANOKA, MN 55303

Sold To: IMI SYSTEMS YITZHAK PLANT 64 BIALIK BLVD RAMAT HASHARON, ISR	Ship To: IMI SYSTEMS LTD YITZHAK PLANT 64 BIALIK BLVD RAMAT HASHARON, 47100 ISR
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Page Number 1 of 2	Shipment ID: SO016774699+RT02832407	Order Date: 01/08/2024	Ship Date: 05/08/2024
Customer No: 1087749	Customer PO(s) 720001708		

Item	Description	ERP Order #	Customer PO	Base Quantity	Converted Qty	Extended Weight
321	PRIMER NO.35 OEM	SO016774699	720001708	200,000.00 EA	80.00 CS	820.00 LB
321	PRIMER NO.35 OEM	SO016774699	720001708	1,800,000.00 EA	720.00 CS	7,380.00 LB

Vista Outdoor Sales LLC is a subsidiary of Vista Outdoor Inc. All sales subject to Vista Outdoor General Terms and Conditions of Sale including but not limited to the following: FOB Origin (freight prepaid where applicable); Title and risk of loss transfer to the Buyer upon delivery to the carrier; No goods sold on consignment. No merchandise may be returned without prior authorization and returns may be subject to a restocking fee. Contact Customer Service for return authorization. Sales personnel are not authorized to make adjustments or alter terms of sale. No unauthorized discounts or offsets allowed. Customer agrees to pay a late fee of 1.5% (18% annum) or the highest amount allowed by law for past due balances. Customer agrees to pay all cost of collection including attorney's fees, court costs and other collection expenses. Products from Vista Outdoor Sales LLC may be controlled under the International Traffic in Arms Regulations and/or the Export Administration Regulations, and is subject to Export Control Laws of the U.S. Government. Transfer of controlled products by any means to a foreign person, whether in the U.S. or abroad, without an export license or other approval from the U.S. Department of State or the U.S. Department of Commerce, is prohibited. Any terms on any purchase order are hereby rejected and replaced with the foregoing terms, which are deemed accepted by acceptance of the goods.
<http://vistaoutdoor.com/wp-content/uploads/2018/08/Vista-Outdoor-Terms-Conditions-of-Sale-August-2018.pdf>

Shipped From: VISTA OUTDOOR SALES LLC
1 VISTA WAY

Packing List

ANOKA, MN 55303

Sold To: IMI SYSTEMS YITZHAK PLANT 64 BIALIK BLVD RAMAT HASHARON, ISR		Ship To: IMI SYSTEMS LTD YITZHAK PLANT 64 BIALIK BLVD RAMAT HASHARON, 47100 ISR	
Page Number 2 of 2	Shipment ID: SO016774699+RT02832407	Order Date: 01/08/2024	Ship Date: 05/08/2024
Customer No: 1087749		Customer PO(s) 720001708	

Please Bring any Discrepancies to our Attention Immediately

Total Pallets: 4.00

Total Weights: 8,200.00 LB

		Primers	Grand Total
CS	Quantity	800.00	800.00
	Weight(lb)	8,200.00	8,200.00
Summary	Quantity	800.00	800.00
	Weight(lb)	8,200.00	8,200.00

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<http://vistaoutdoor.com/wp-content/uploads/2018/08/Vista-Outdoor-Terms-Conditions-of-Sale-August-2018.pdf>

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least two copies to the airline.)

Shipper:
VISTA OUTDOOR SALES LLC
1 VISTA WAY
ANOKA, MN 55303
USA

Air Waybill No.

700-7417-0891

Page 1 of 1 Pages

Shipper's Reference Number

SO016774699+RT02832407

Consignee:
IMI SYSTEMS LTD
YITZHAK PLANT
64 BIALIK BLVD
RAMAT HASHARON, 47100
ISRAEL (ISR)

Two completed and signed copies of this Declaration must
be handed to the operator.

WARNING

Failure to comply in all respects with the applicable
Dangerous Goods Regulations may be in breach of the
applicable law, subject to legal penalties.

TRANSPORT DETAILS

This shipment is within the
limitations prescribed for:
(delete non-applicable)

Airport of Departure

JFK
New York
USA

Passenger
and cargo
aircraft

☒ Cargo Aircraft Only

Airport of Destination:

Tel Aviv, Israel

Shipment type:(delete non-applicable)

NON-RADIOACTIVE

☒ RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

(see Subsections 6.6 and 8.1 of IATA Dangerous Goods Regulations)

Dangerous Goods Identification

UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Packing Group	Quantity and Type of packing	Packing Inst.	Authorization
UN0044	PRIMERS, CAP TYPE	1.4S		260 FIBREBOARD BOXES X 4.20 kg (NEQ 0.34 kg) OVERPACK USED X 1 # 1,2,3 TOTAL QUANTITY PER OVERPACK 1092.00 kg (NEQ: 88.40 kg)	133	EX2005030083
UN0044	PRIMERS, CAP TYPE	1.4S		20 FIBREBOARD BOXES X 4.20 kg (NEQ 0.34 kg) OVERPACK USED X 1 # 4 TOTAL QUANTITY PER OVERPACK 84.00 kg (NEQ: 6.80 kg)	133	EX2005030083

Additional Handling Information SPILLED PRIMERS SHOULD BE REPLACED IN THEIR PROTECTIVE PACKAGING OR
PLACED IN A CONTAINER OF WATER FOR DISPOSAL.

CHEMTREC Emergency 24 Hour Contact Tel. No.

CHEMTREC ACCT# CCN 8313

800-424-9300

DOMESTIC

+1-703-527-3887

INTERNATIONAL

I hereby declare that the contents of this consignment are fully and
accurately described above by the proper shipping name and are
classified, packaged, marked and labeled/placarded, and are in all
respects in proper condition for transport according to applicable
international and national governmental regulations. I declare that all
of the applicable air transport requirements have been met.

Name/Title of Signatory

Roman Orlioglo / Traffic Supv

Place and Date

Anoka, MN 15/05/2024

Signature

(see warning above)



U.S. Department
of Transportation

Pipeline and Hazardous
Materials Safety Administration

The US Department of Transportation
Competent Authority for the United States

East Building, PHH - 32
1200 New Jersey Avenue, Southeast
Washington, D.C. 20590

CLASSIFICATION OF EXPLOSIVES
FIRST REVISION

Based upon a request by Federal Cartridge Company, 2299 Snake River Avenue, Lewiston, ID 83501, United States the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR). A copy of your application, all supporting documentation and a copy of this approval must be retained and made available to DOT upon request.

U.N. PROPER SHIPPING NAME AND NUMBER:

Primers, cap type, UN0044

U.N. CLASSIFICATION CODE: 1.4S

REFERENCE NUMBER

EX2005030083

PRODUCT DESIGNATION/PART NUMBER

Primer, No. 35, DoD, and Primer, No. 35

NOTES: This approval as revised supersedes all previous versions.

DATED: 09/14/2012

Harpreet K Singh

For Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Small Arms Primer

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision Date: 10/07/2017



Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product Name : Small Arms Primers, all part numbers including 82, 82LP, 500, 529

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 : Small Arms Ammunition Reloading

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company

Federal Cartridge Company (dba CCI/Speer)

2299 Snake River Avenue

Lewiston, ID 83501

T 1-800-635-7656

dangerous.goods@vistaoutdoor.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Expl. 1.4 H204

Repr. 1A H360

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

:



GH01

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H204 - Fire or projection hazard

H360 - May damage fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

P240 - Ground/bond container and receiving equipment.

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P370+P380 - In case of fire: evacuate area.

P372 - Explosion risk in case of fire.

P373 - DO NOT fight fire when fire reaches explosives.

P401 - Store in accordance with local, regional, national, and international regulations.

P405 - Store locked up.

Small Arms Primer

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

EUH-statements

: EUH208 - Contains Nickel(7440-02-0). May produce an allergic reaction

2.3. Other hazards

Other hazards not contributing to the classification

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Copper*	(CAS No) 7440-50-8 (EC no) 231-159-6	62,08 - 83,42	Not classified
Zinc*	(CAS No) 7440-66-6 (EC no) 231-175-3 (EC index no) 030-001-01-9	2,91 - 35,89	Not classified
Barium	(CAS No) 7440-39-3 (EC no) 231-149-1	0,12 - 1,02	Water-react. 2, H261 Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di-	(CAS No) 12403-82-6 (EC no) 235-642-2	0,246 - 1,02	Expl. 1.1, H201 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Nickel	(CAS No) 7440-02-0 (EC no) 231-111-4 (EC index no) 028-002-00-7	< 0,97	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412
Antimony sulfide	(CAS No) 1345-04-6 (EC no) 215-713-4	0,063 - 0,51	Carc. 2, H351
Aluminum	(CAS No) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-002-00-1	0,015 - 0,3	Flam. Sol. 1, H228 Water-react. 2, H261
Nitrocellulose	(CAS No) 9004-70-0 (EC no) 618-392-2 (EC index no) 603-037-00-6	<= 0,3	Expl. 1.1, H201
Nitroglycerin	(CAS No) 55-63-0 (EC no) 200-240-8 (EC index no) 603-034-00-X	<= 0,003	Unst. Expl. H200 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 2, H373 Aquatic Chronic 2, H411
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide	(CAS No) 109-27-3 (EC no) 203-659-4	< 0,003	Unst. Expl. H200 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

*These metals are in their solid, massive form, and not available for environmental exposure unless they are fractured and broken into small pieces/powder.

Small Arms Primer

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
- First-aid measures after eye contact : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/injuries : Fumes and/or vapours from discharged primers can be irritating. May damage fertility or the unborn child.
- Symptoms/injuries after inhalation : Prolonged exposure may cause irritation.
- Symptoms/injuries after skin contact : Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.
- Symptoms/injuries after eye contact : May cause slight irritation to eyes.
- Symptoms/injuries after ingestion : Ingestion may cause adverse effects.
- Chronic symptoms : May damage fertility or the unborn child.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, dry chemical, foam, carbon dioxide.
- Unsuitable extinguishing media : DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Smothering this product could lead to decomposition and explosion. This product is more sensitive to detonation if contaminated with organic or oxidizable material or if heated while confined. Unless the mass of product on fire is flooded with water, re-ignition is possible.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Explosive. Heating may cause a fire or explosion.
- Explosion hazard : Explosive. Explosion risk in case of fire.
- Reactivity : Hazardous reactions will not occur under normal conditions. May react violently with oxidants, causing fire and explosion hazard.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Nitrogen oxides. Zinc oxide. Copper oxides. Oxides of nickel. Barium oxides. Oxides of aluminum. Antimony and its oxides. Lead compounds. Metal oxides.

5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
- Firefighting instructions : DO NOT fight fire when fire reaches explosives. Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Evacuate area. Fight fire remotely due to the risk of explosion.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Firefighters should wear full protective gear when fighting or downwind of initial fire not involving explosives.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Do not breathe dust or fumes. Avoid contact with skin and eyes. Remove ignition sources. No naked lights. No smoking. Use special care to avoid static electric charges. Evacuate danger area. Do not allow product to spread into the environment.

6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

Small Arms Primer

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.1.2. For emergency responders

Protective equipment

Emergency procedures

: Equip cleanup crew with proper protection.

: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Contain and collect as any solid.

: Clean up spills immediately and dispose of waste safely. Use only non-sparking tools. Recover the product by vacuuming, shovelling or sweeping. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

: Risk of explosion by shock, friction, fire or other sources of ignition.

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking. Use grounded electrical/mechanical equipment. Use only non-sparking tools. Do not subject to grinding, shock, friction. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fumes.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Storage conditions

Incompatible products

Incompatible materials

Heat and ignition sources

: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Protect container from physical shock.

: Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep in fireproof place. Store locked up. Do not store in leather case for extended periods.

: Strong acids, strong bases, strong oxidizers.

: Heat sources. Avoid ignition sources. Combustible material.

: Do not expose to heat, or ignition sources as this could cause an explosion. If heated above 200 °C (392 °F) may explode.

7.3. Specific end use(s)

Small Arms Ammunition Reloading

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Copper (7440-50-8)		
Austria	MAK (mg/m ³)	1 mg/m ³ (inhalable fraction) 0,1 mg/m ³ (respirable fraction, smoke)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ (inhalable fraction) 0,4 mg/m ³ (respirable fraction, smoke)
Belgium	Limit value (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³ (metal vapor)

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Copper (7440-50-8)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	2 mg/m ³ (dust and fume)
France	VLE (mg/m ³)	2 mg/m ³ (dust)
France	VME (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Greece	OEL TWA (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust)
Greece	OEL STEL (mg/m ³)	2 mg/m ³ (dust)
USA ACGIH	ACGIH TWA (mg/m ³)	0,2 mg/m ³ (fume)
Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Switzerland	VLE (mg/m ³)	0,2 mg/m ³ (inhalable dust)
Switzerland	VME (mg/m ³)	0,1 mg/m ³ (inhalable dust)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,1 mg/m ³ (inhalable fraction)
United Kingdom	WEL TWA (mg/m ³)	1 mg/m ³ (dust and mists) 0,2 mg/m ³ (fume)
United Kingdom	WEL STEL (mg/m ³)	0,6 mg/m ³ (calculated-fume) 2 mg/m ³ (dust and mist)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³ (dust) 0,1 mg/m ³ (fume)
Denmark	Grænseværdie (langvarig) (mg/m ³)	1,0 mg/m ³ (dust and powder) 0,1 mg/m ³ (fume)
Estonia	OEL TWA (mg/m ³)	1 mg/m ³ (total dust) 0,2 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	1 mg/m ³ 0,1 mg/m ³ (respirable dust and fume)
Hungary	AK-érték	1 mg/m ³ 0,1 mg/m ³ (fume)
Hungary	CK-érték	4 mg/m ³ 0,4 mg/m ³ (fume)
Ireland	OEL (8 hours ref) (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Ireland	OEL (15 min ref) (mg/m ³)	0,6 mg/m ³ (calculated-fume) 2 mg/m ³ (dust and mist)
Lithuania	IPRV (mg/m ³)	1 mg/m ³ (inhalable fraction) 0,2 mg/m ³ (respirable fraction)
Norway	Grenseverdier (AN) (mg/m ³)	0,1 mg/m ³ (fume) 1 mg/m ³ (dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,1 mg/m ³ (fume) 1 mg/m ³ (dust)
Poland	NDS (mg/m ³)	0,2 mg/m ³
Romania	OEL TWA (mg/m ³)	0,50 mg/m ³ (powder)
Romania	OEL STEL (mg/m ³)	0,20 mg/m ³ (fume) 1,50 mg/m ³ (dust)
Slovakia	NPHV (priemerná) (mg/m ³)	1 mg/m ³ (dust) 0,1 mg/m ³ (fume)
Slovakia	NPHV (Hraničná) (mg/m ³)	2 mg/m ³ (dust) 0,2 mg/m ³ (fume)

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Copper (7440-50-8)		
Slovenia	OEL TWA (mg/m ³)	1 mg/m ³ (inhalable fraction) 0,1 mg/m ³ (respirable fraction, fume)
Slovenia	OEL STEL (mg/m ³)	4 mg/m ³ (inhalable fraction) 0,4 mg/m ³ (respirable fraction, fume)
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ (total dust) 0,2 mg/m ³ (respirable dust)
Portugal	OEL TWA (mg/m ³)	0,2 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
Zinc (7440-66-6)		
Switzerland	VLE (mg/m ³)	0,4 mg/m ³ (respirable dust)
Switzerland	VME (mg/m ³)	0,1 mg/m ³ (respirable dust) 2 mg/m ³ (inhalable dust)
Nickel (7440-02-0)		
Austria	TEL TRK (mg/m ³)	0,5 mg/m ³ (dust, inhalable fraction)
Austria	OEL chemical category (AT)	Group A1 Carcinogen dust/aerosol, Respiratory sensitizer dust, Skin sensitizer
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	0,05 mg/m ³
Bulgaria	Bulgaria - BEI	45 µg/l (Medium: urine - Time: after several shifts - Parameter: Nickel)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,5 mg/m ³
Croatia	OEL chemical category (HR)	Carcinogen category 3
France	VME (mg/m ³)	1 mg/m ³ 1 mg/m ³ (metal gratings)
France	OEL chemical category (FR)	Carcinogen category 2
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,006 mg/m ³
Greece	OEL TWA (mg/m ³)	1 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³)	1,5 mg/m ³ (inhalable fraction)
Latvia	OEL TWA (mg/m ³)	0,05 mg/m ³
Spain	VLA-ED (mg/m ³)	1 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH)
Spain	OEL chemical category (ES)	C1A, Sensitizer
Switzerland	VME (mg/m ³)	0,5 mg/m ³ (inhalable dust)
Switzerland	OEL chemical category (CH)	Category C3 carcinogen, Sensitizer
Switzerland	Switzerland - BEI	45 µg/l (Medium: urine - Time: end of shift, and after several shifts (for long-term exposures) - Parameter: Nickel (N))
United Kingdom	WEL TWA (mg/m ³)	0,5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	1,5 mg/m ³ (calculated)
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,5 mg/m ³
Czech Republic	OEL chemical category (CZ)	Sensitizer
Czech Republic	Czech Republic - BEI	0,077 µmol/mmol Creatinine (Medium: urine - Time: discretionary - Parameter: Nickel) 0,04 mg/g Kreatinin (Medium: urine - Time: discretionary - Parameter: Nickel)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,05 mg/m ³ (dust and powder)
Estonia	OEL TWA (mg/m ³)	0,5 mg/m ³

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Nickel (7440-02-0)		
Estonia	OEL chemical category (ET)	Sensitizer
Finland	HTP-arvo (8h) (mg/m ³)	0,01 mg/m ³
Finland	Finland - BEI	0,1 µmol/l (Medium: urine - Time: end of shift at end of workweek - Parameter: Nickel)
Hungary	MK-érték	0,1 mg/m ³
Hungary	OEL chemical category (HU)	Carcinogenic substance, Sensitizer
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	1,5 mg/m ³ (calculated)
Lithuania	IPRV (mg/m ³)	0,5 mg/m ³
Lithuania	OEL chemical category (LT)	Carcinogen, Sensitizer
Norway	Grenseverdier (AN) (mg/m ³)	0,05 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,05 mg/m ³
Norway	OEL chemical category (NO)	Carcinogen, Potential reproductive hazard, Sensitizing substance
Poland	NDS (mg/m ³)	0,25 mg/m ³
Romania	OEL TWA (mg/m ³)	0,10 mg/m ³
Romania	OEL STEL (mg/m ³)	0,50 mg/m ³
Romania	OEL chemical category (RO)	Carcinogen
Romania	Romania - BEI	15 µg/l (Medium: urine - Time: end of shift - Parameter: Nickel)
Slovakia	Slovakia - BEI	0,03 mg/l (Medium: blood - Time: end of exposure or work shift - Parameter: Nickel)
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction)
Slovenia	OEL chemical category (SI)	Category 2
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,5 mg/m ³ (total dust)
Sweden	OEL chemical category (SE)	Sensitizer
Portugal	OEL TWA (mg/m ³)	1,5 mg/m ³ (inhalable fraction)
Portugal	OEL chemical category (PT)	A5 - Not Suspected as a Human Carcinogen
Antimony sulfide (1345-04-6)		
Finland	HTP-arvo (8h) (mg/m ³)	0,5 mg/m ³
Barium (7440-39-3)		
Austria	MAK (mg/m ³)	0,5 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	2 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	0,5 mg/m ³
USA ACGIH	ACGIH TWA (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (mg/m ³)	0,5 mg/m ³ (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,5 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,5 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,5 mg/m ³
Malta	OEL TWA (mg/m ³)	0,5 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	0,5 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,5 mg/m ³
Poland	NDS (mg/m ³)	0,5 mg/m ³
Romania	OEL TWA (mg/m ³)	0,5 mg/m ³
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³
Portugal	OEL TWA (mg/m ³)	0,5 mg/m ³ (indicative limit value)

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Barium (7440-39-3)		
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen
Nitroglycerin (55-63-0)		
Austria	MAK (mg/m ³)	0,5 mg/m ³
Austria	MAK (ppm)	0,05 ppm
Austria	MAK Short time value (mg/m ³)	2 mg/m ³
Austria	MAK Short time value (ppm)	0,2 ppm
Austria	OEL chemical category (AT)	Skin notation
Belgium	Limit value (mg/m ³)	0,47 mg/m ³
Belgium	Limit value (ppm)	0,05 ppm
Belgium	OEL chemical category (BE)	Skin
France	VME (mg/m ³)	1 mg/m ³
France	VME (ppm)	0,1 ppm
France	OEL chemical category (FR)	Risk of cutaneous absorption
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0,094 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	0,01 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 chemical category	Skin notation
Greece	OEL TWA (mg/m ³)	2 mg/m ³
Greece	OEL TWA (ppm)	0,2 ppm
Greece	OEL STEL (mg/m ³)	2 mg/m ³
Greece	OEL STEL (ppm)	0,2 ppm
Greece	OEL chemical category (GR)	skin - potential for cutaneous absorption
USA ACGIH	ACGIH TWA (ppm)	0,05 ppm
Spain	VLA-ED (mg/m ³)	0,5 mg/m ³
Spain	VLA-ED (ppm)	0,05 ppm
Spain	OEL chemical category (ES)	skin - potential for cutaneous exposure
Switzerland	VLE (mg/m ³)	0,094 mg/m ³
Switzerland	VLE (ppm)	0,01 ppm
Switzerland	VME (mg/m ³)	0,094 mg/m ³
Switzerland	VME (ppm)	0,01 ppm
Switzerland	OEL chemical category (CH)	Skin notation
Switzerland	Switzerland - BEI	0,5 µg/l (Medium: plasma/serum - Time: end of shift - Parameter: 1,2-Glycerine dinitrate) 0,5 µg/l (Medium: plasma/serum - Time: end of shift - Parameter: 1,3-Glycerine dinitrate)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,5 mg/m ³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (ceiling) (mg/m ³)	0,2 mg/m ³
Denmark	Grænseværdie (ceiling) (ppm)	0,02 ppm
Estonia	OEL TWA (mg/m ³)	0,3 mg/m ³
Estonia	OEL TWA (ppm)	0,03 ppm
Estonia	OEL STEL (mg/m ³)	0,9 mg/m ³
Estonia	OEL STEL (ppm)	0,1 ppm
Estonia	OEL chemical category (ET)	Skin notation
Finland	HTP-arvo (8h) (mg/m ³)	0,3 mg/m ³

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Nitroglycerin (55-63-0)		
Finland	HTP-arvo (8h) (ppm)	0,03 ppm
Finland	HTP-arvo (15 min)	1 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	0,1 ppm
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
Hungary	AK-érték	0,5 mg/m ³
Hungary	CK-érték	2 mg/m ³
Hungary	OEL chemical category (HU)	Sensitizer, Potential for cutaneous absorption
Ireland	OEL (8 hours ref) (mg/m ³)	0,5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	0,05 ppm
Ireland	OEL (15 min ref) (mg/m ³)	1,5 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	0,15 ppm (calculated)
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption
Lithuania	IPRV (mg/m ³)	0,3 mg/m ³
Lithuania	IPRV (ppm)	0,03 ppm
Lithuania	TPRV (mg/m ³)	0,9 mg/m ³
Lithuania	TPRV (ppm)	0,1 ppm
Lithuania	OEL chemical category (LT)	Skin notation
Norway	Grenseverdier (AN) (mg/m ³)	0,27 mg/m ³
Norway	Grenseverdier (AN) (ppm)	0,03 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,27 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	0,03 ppm
Norway	OEL chemical category (NO)	Skin notation
Poland	NDS (mg/m ³)	0,095 mg/m ³ (sum of the average weighted concentrations of compounds of the same mechanism of action cannot exceed 1)
Poland	NDSch (mg/m ³)	0,19 mg/m ³ (when Ethylene glycol dinitrate (Nitroglycol, EGDN) is also present in the work place, it is necessary to take into account the sum of the quotient of the average weighted concentrations of both compounds to their MAC values, which may not exceed a value of 1)
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	OEL TWA (ppm)	0,006 ppm
Romania	OEL STEL (mg/m ³)	2 mg/m ³
Romania	OEL STEL (ppm)	0,25 ppm
Romania	OEL chemical category (RO)	Skin notation
Slovakia	NPHV (priemerná) (mg/m ³)	0,47 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	0,05 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	0,9 mg/m ³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovenia	OEL TWA (mg/m ³)	0,47 mg/m ³
Slovenia	OEL TWA (ppm)	0,05 ppm
Slovenia	OEL STEL (mg/m ³)	1,88 mg/m ³
Slovenia	OEL STEL (ppm)	0,2 ppm
Slovenia	OEL chemical category (SL)	Potential for cutaneous absorption
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,3 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	0,03 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	0,9 mg/m ³

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Nitroglycerin (55-63-0)		
Sweden	kortidsvärde (KTV) (ppm)	0,1 ppm
Sweden	OEL chemical category (SE)	Skin notation
Portugal	OEL TWA (ppm)	0,05 ppm
Portugal	OEL chemical category (PT)	skin - potential for cutaneous exposure
Aluminum (7429-90-5)		
Austria	MAK (mg/m ³)	10 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	20 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	10,0 mg/m ³ (metal dust) 1,5 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
Croatia	Croatia - BEI	200 mg/l (Medium: urine - Time: at the end of the shift - Parameter: Aluminum)
France	VME (mg/m ³)	10 mg/m ³ (metal) 5 mg/m ³ (dust)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	4 mg/m ³ TWA MAK (dust, inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (ppm)	1,5 mg/m ³ TWA MAK (dust, respirable fraction)
Greece	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable fraction) 5 mg/m ³ (respirable fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (respirable fraction)
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (dust)
Switzerland	VME (mg/m ³)	3 mg/m ³ (respirable dust)
Switzerland	Switzerland - BEI	60 µg/g creatinine (Medium: urine - Time: no restrictions - Parameter: Aluminum)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10,0 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ (dust, fume and powder, total) 2 mg/m ³ (dust and powder, respirable)
Estonia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust)
Hungary	AK-érték	6 mg/m ³ (respirable dust)
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	5 mg/m ³ (inhalable fraction) 2 mg/m ³ (respirable fraction) 1 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³ (pyrotechnical-powder)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	5 mg/m ³ (pyrotechnical-powder)
Poland	NDS (mg/m ³)	2,5 mg/m ³ (Inhalable fraction) 1,2 mg/m ³ (respirable fraction)
Romania	OEL TWA (mg/m ³)	3 mg/m ³ (dust) 1 mg/m ³ (fume)

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Aluminum (7429-90-5)		
Romania	OEL STEL (mg/m ³)	10 mg/m ³ (powder) 3 mg/m ³ (fume)
Romania	Romania - BEI	200 µg/l (Medium: urine - Time: end of shift - Parameter: Aluminum)
Slovakia	NPHV (priemerná) (mg/m ³)	1,5 mg/m ³ (metal) 6 mg/m ³ (total aerosol)
Slovakia	Slovakia - BEI	60 µg/g creatinine (Medium: urine - Time: not critical - Parameter: Aluminum)
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³ (total dust) 2 mg/m ³ (respirable dust)
Portugal	OEL TWA (mg/m ³)	10 mg/m ³ (metal dust)

8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

: Chemically resistant materials and fabrics.

Hand protection

: Wear protective gloves.

Eye protection

: Chemical safety goggles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Environmental exposure controls

: Avoid release to the environment.

Consumer exposure controls

: If noise levels exceed local, regional, or national limits use appropriate hearing protection.

Other information

: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Evaporation rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: No data available

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Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: < 1 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions. May react violently with oxidants, causing fire and explosion hazard.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials. Sources of ignition. Avoid shock, heat, electrostatic discharge, impact, impingement, and friction. High explosive will detonate when exposed to sufficient energy level.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers. Corrosive liquids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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Nickel (7440-02-0)

LD50 oral rat	> 9000 mg/kg
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Antimony sulfide (1345-04-6)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5,04 mg/l/4h

Barium (7440-39-3)

LD50 oral rat	132 mg/kg
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Nitroglycerin (55-63-0)

LD50 oral rat	100 mg/kg
LD50 oral	685 mg/kg
LD50 dermal rabbit	> 280 mg/kg
ATE CLP (oral)	5,00 mg/kg bodyweight
ATE CLP (dermal)	5,00 mg/kg bodyweight
ATE CLP (dust,mist)	0,05 mg/l/4h

Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di- (12403-82-6)

ATE CLP (oral)	500,00 mg/kg bodyweight
ATE CLP (dust,mist)	1,50 mg/l/4h

Nitrocellulose (9004-70-0)

LD50 oral rat	5000 mg/kg
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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

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Nickel (7440-02-0)	
IARC group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
Antimony sulfide (1345-04-6)	
IARC group	3
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/Injuries After Inhalation	: Prolonged exposure may cause irritation.
Symptoms/Injuries After Skin Contact	: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.
Symptoms/Injuries After Eye Contact	: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion	: Ingestion may cause adverse effects.
Chronic Symptoms	: May damage fertility or the unborn child.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

Nickel (7440-02-0)	
LC50 fish 1	100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1	121,6 µg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static])
LC50 fish 2	15,3 mg/l
EC50 Daphnia 2	1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 other aquatic organisms 2	0,174 (0,174 - 0,311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
Barium (7440-39-3)	
EC50 Daphnia 1	14,5 mg/l
Nitroglycerin (55-63-0)	
LC50 fish 1	0,87 - 3,25 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	46 - 55 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0,87 - 2,21 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	38 - 55 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
ErC50 (algae)	0,4 mg/l
NOEC chronic fish	0,03 mg/l
Nitrocellulose (9004-70-0)	
ErC50 (algae)	579 mg/l
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide (109-27-3)	
EC50 Daphnia 1	0,14 mg/l

12.2. Persistence and degradability

Small Arms Primer	
Persistence and degradability	Not established.
Copper (7440-50-8)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Small Arms Primer	
Bioaccumulative potential	Not established.

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods






Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional information : Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
0044	0044	0044	0044	0044
14.2. UN proper shipping name				
PRIMERS, CAP TYPE	PRIMERS, CAP TYPE	Primers, cap type	PRIMERS, CAP TYPE	PRIMERS, CAP TYPE
14.3. Transport hazard class(es)				
1.4S	1.4S	1.4S	1.4S	1.4S
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

14.6. Special precautions for user

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Nitroglycerin
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Nitroglycerin

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3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Nitroglycerin
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Nitroglycerin
27. Nickel	Nickel
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Barium - Aluminum

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Copper (7440-50-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Zinc (7440-66-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Nickel (7440-02-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Antimony sulfide (1345-04-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Barium (7440-39-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Nitroglycerin (55-63-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Aluminum (7429-90-5)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Lead, dihydroxy[2,4,6-trinitro-1,3-benzenediolato(2-)]di- (12403-82-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
1-Tetrazene-1-carboximidic acid, 4-(aminoiminomethyl)-, 2-nitrosohydrazide (109-27-3)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

VOC content : < 1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Revision date: : 10/10/2016
 Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal), Category 1
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

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Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, 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
Flam. Sol. 1	Flammable solids, Category 1
Repr. 1A	Reproductive toxicity, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Unst. Expl	Explosives, Unstable explosives
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H200	Unstable explosives
H201	Explosive; mass explosion hazard
H204	Fire or projection hazard
H228	Flammable solid
H261	In contact with water releases flammable gases
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
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
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains Nickel(7440-02-0). May produce an allergic reaction

EU GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.