

(FOD Economie - SPF Economie)

De: [REDACTED]@Challenge-Group.com>  
Envoyé: jeudi, 14 mars 2024 15:42  
À: Shmb &Explo (FOD Economie - SPF Economie)  
Cc: [REDACTED]  
Objet: TR: DG Booking to TLV // 700-74141686// HB-8RM4917// CLASS 1.4C  
Pièces jointes: 20240314082446.pdf  
Catégories: [REDACTED]

Bonjour à tous,

Je vous prie de trouver, en PJ, des documents concernant une demande d'autorisation de transport d'explosifs.

AWB 700-74141686.

Merci de bien vouloir nous accorder cette autorisation.

Bàv,



[REDACTED] Customer Service Agent - LGG

Phone [REDACTED]

Mobile [REDACTED]

Email [REDACTED]@Challenge-Group.com



**Challenge Airlines** 

Liege Airport- Building 26  
Rue Saint Exupery, 26  
4460 Grace-Hollogne

Belgium

[www.cal-cargo.com](http://www.cal-cargo.com)

**Challenge Group** 

Challenge Accepted



IATA

WORLD CARGO

SYMPOSIUM

MEET US THERE !

**Challenge Group** 

12-14 MARCH 2024

HONG KONG (SAR), CHINA

700|JFK|74141686



Shipper's Name and Address <b>DHL GLOBAL FORWARDING</b> <b>BUILDING 89 JFK INTERNATIONAL AIRPORT</b> <b>JAMAICA NY 11430 US</b> <b>TE +17182443030 Donna Scro</b>		Shipper's Account Number  		<b>Not Negotiable</b> <b>Air Waybill</b> Issued by <b>CHALLENGE AIRLINES (IL) LTD</b> <b>1 HAYARDEN STREET</b> <b>46722, AIRPORT CITY, ISRAEL</b>																												
Consignee's Name and Address <b>DHL GLOBAL FORWARDING ISRAEL LTD</b> <b>SUITE 807 MAMAN BLDG</b> <b>BEN GURION AIRPORT</b> <b>TEL AVIV 52522 IL</b> <b>TE +97239719000 VAT 513046615</b>		Consignee's Account Number  		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.																												
Issuing Carrier's Agent Name and City <b>DHL GLOBAL FORWARDING</b> <b>NEW YORK</b>		Accounting Information  																														
Agent's IATA Code <b>33-5 1595/0042</b>		Account No  		Reference Number <b>C2400523997</b>																												
Airport of Departure (Addr. of First Carrier) and Requested Routing <b>JOHN F. KENNEDY APT/NEW YORK</b>				Optional Shipping Information  																												
To <b>TLV</b>		By First Carrier <b>5C</b>		Currency <b>USD</b>																												
Routing and Destination <b>5C</b>		to  		Declared Value for Carriage <b>NVD</b>																												
by  		to  		Declared Value for Customs <b>NCV</b>																												
by  		to  		Amount of Insurance <b>XXX</b>																												
Airport of Destination <b>TEL AVIV-YAFO</b>		Requested Flight/Date <b>5C942/07 /</b>		INSURANCE: If Carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in box marked "amount of insurance"																												
Handling Information <b>US/RA/CW10043043 ** DANGEROUS GOODS AS PER ASSOCIATED SHIPPER'S DECLARATION/CARGO AIRCRAFT ONLY ***</b>																																
ITN X20240314193556																																
SOI																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No. of Pieces RCP</th> <th>Gross Weight</th> <th>kg</th> <th>Rate Class</th> <th>Commodity Item No.</th> <th>Chargeable Weight</th> <th>Rate</th> <th>Charge</th> <th>Nature and Quantity of Goods (incl. Dimensions or Volume)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.2</td> <td>K</td> <td>N</td> <td></td> <td>100.0</td> <td>5.40</td> <td>540.00</td> <td>           L0002373763             UN 0276 CLASS 1.4C            CARTRIDGES, POWER            DEVICE            EX-9702028             HB-8RN4917             HS Code 8803200010            1 SLAC         </td> </tr> <tr> <td>1</td> <td>3.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>540.00</td> <td></td> </tr> </tbody> </table>						No. of Pieces RCP	Gross Weight	kg	Rate Class	Commodity Item No.	Chargeable Weight	Rate	Charge	Nature and Quantity of Goods (incl. Dimensions or Volume)	1	3.2	K	N		100.0	5.40	540.00	L0002373763  UN 0276 CLASS 1.4C CARTRIDGES, POWER DEVICE EX-9702028  HB-8RN4917  HS Code 8803200010 1 SLAC	1	3.2						540.00	
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1	3.2						540.00																									
Prepaid <b>540.00</b>		Weight Charge  		Collect  		Other Charges <b>MBC AIRLINE AIRFREIGHT SURCHARGE</b>		0.01																								
Valuation Charge  		Tax  		Total Other Charges Due Agent  		MYC FUEL SURCHARGE <b>RAC DANGEROUS GOODS SURCHARGE</b>		1.95 100.00																								
Total Other Charges Due Carrier  		Total Prepaid <b>641.96</b>		Total Collect  		Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations.		<b>MARTHA ROMERO</b>																								
Currency Conversion Rates  		CC Charges in Dest. Currency  		Charges at Destination  		Total Collect Charges  		<b>MARTHA ROMERO</b> Signature of Shipper or his Agent <b>AS AGENT OF CHALLENGE AIRLINES (IL) LTD</b> <b>14-Mar-24</b> Executed on (date)																								
For Carrier's use only at Destination  		Signature of Issuing Carrier or its Agent  		at (place) <b>JAMAICA</b>		700-74141686																										

DRAFT - DRAFT - DRAFT - DRAFT

Reduces 700 Effort + 1.15 comp. Laser Air Waybill

CONSOL	C2400523997
CONTAINER	
CARRIER B/L	70074141586
PRINT DATE	14-Mar-24 10:06



\*CON=C2400523987.MANJ



# Air Freight List

DESTINATION: TLV

Page 1 of 1

## CONSOL DETAILS

PRINTED BY: Martha Romero

Flight / Date	Freight Terms	Customs Entry Number	Carrier	Load	Disch.	ETD	ETA
5C942 / 07-Apr	PPD	ITN X20240314193556	C A L CARGO AIRLINES LTD	JFK	TLV	07-Apr-24 18:59	09-Apr-24 18:59

## SHIPMENT DETAILS

Shipper	Consignee	ORIG - DEST	HAWB	Goods Description	Custom Status	Packs	Dimension (L x W x H)	Weight Total
KIDDIE AEROSPACE & DEFENSE 4200 AIRPORT DRIVE 27896 WILSON US Known Customer	ISRAEL AEROSPACE INDUSTRIES LTD BEN GURION AIRPORT 70100 TEL AVIV IL	JFK - TLV	8RN4917	UN 0276 CLASS 1 4C CARTRIDGES, POWER DEVICE SLAC 1 PCE  CARTRIDGE ITN X20240314193556  NAR SED Attached		1 CBX  1 CBX	  13x13x13 IN	3.2 KG  0.037 M3

Total Shipments:	1	Total Packs:	1 PKG	Total Inner Packs:	1 PCE	Total Weight:	3.2 KG	Total Volume:	0.037 M3
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## DHL Global Forwarding

BUILDING 89 JFK INTERNATIONAL AIRPORT  
11430 JAMAICA  
TEL: +01 718 2443000  
CREST CODE: MJ5410

## Excellence. Simply Delivered

All business is undertaken subject to the current Standard Trading Terms and Conditions of DHL Global Forwarding - A copy of the relevant terms and conditions will be supplied on request or can be found at:

<https://www.dhl.com/us-en/home/solutions/global-forwarding/customers-terms-and-conditions.html>



HAWB No.: 8RN4917

<b>Shipper's Name and Address</b> KIDDIE AEROSPACE & DEFENSE 4200 AIRPORT DRIVE WILSON NC 27896 US TE +12522467086		<b>Shipper's Account Number</b> USKIA003		<b>Not Negotiable</b> <b>House Air Waybill</b> Issued by DHL GLOBAL FORWARDING BUILDING 88 JFK INTERNATIONAL AIRPORT AREA CARGO - C JAMAICA NY 11430 UNITED STATES Station Code JFK	
<b>Consignee's Name and Address</b> ISRAEL AEROSPACE INDUSTRIES LTD BEN GURION AIRPORT TEL AVIV TA 70100 IL TE +97239357551 VAT 520027194		<b>Consignee's Account Number</b> ILIAI005		<small>It is agreed that the goods described herein are accepted for carriage in apparent good order and condition (except as noted) and SUBJECT TO THE CONDITIONS OF CONTRACT ATTACHED TO THIS AIR WAYBILL AND/OR ACCESSIBLE ON <a href="https://www.dhl.com/content/dam/dhl/global/dhl-global-forwarding/documents/dglo-dgl-hawb-terms.pdf">https://www.dhl.com/content/dam/dhl/global/dhl-global-forwarding/documents/dglo-dgl-hawb-terms.pdf</a> ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD, RAIL, WATER, AIR OR ANY OTHER MODE UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREON BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.</small>	
<b>Notify</b>		<b>Currency</b> USD		<b>Declared Value for Carriage</b> NVD	<b>Declared Value for Customs</b> [REDACTED] USD
				<b>Amount of Insurance</b> XXX	
<b>Origin Station</b> JOHN F. KENNEDY APT NEW YORK		<b>Destination Station</b> TEL AVIV-YAFO		<b>Insurance</b> - If Carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "amount of insurance"	
<b>Reference Number(s)</b> S 1Z2032150351506275, AA11		<b>Flight 1 / date / via</b>		<b>Flight 2 / date / via</b>	
		<b>Flight 3 / date / via</b>			
		<b>Handling Information</b> AA11			
				ITN X20240314193556	
				SCI	
<b>No. Of Pieces RCP</b>	<b>Gross Weight</b>	<b>kg</b>	<b>Rate Class</b>	<b>Chargeable</b>	<b>Rate Charge</b>
1	32	K	N	65	As Agreed
1	32				As Agreed
<b>Prepaid Freight Charges</b> As Agreed		<b>Collect Freight Charges</b> As Agreed		<b>Other Charges Breakdown</b> As Agreed	
<b>Valuation Charges</b> As Agreed		<b>Valuation Charges</b> As Agreed			
<b>Tax</b> As Agreed		<b>Tax</b> As Agreed			
<b>Total Other Charges Due Agent</b> As Agreed		<b>Total Other Charges Due Agent</b> As Agreed			
<b>Total Other Charges Due Carrier</b> As Agreed		<b>Total Other Charges Due Carrier</b> As Agreed			
<b>Total Prepaid</b> As Agreed		<b>Total Collect</b> As Agreed			
				22-Feb-24 JAMAICA DHL GLOBAL FORWARDING	
				Signature of Issuing Carrier or its Agent	
				Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations	
				AS AGENT FOR THE SHIPPER AND IN CAPACITY AS CONTRACTING CARRIER	
				MARTHA ROMERO	
				Signature of Shipper or its Agent	

DHL Global Forwarding – Excellence. Simply Delivered.

As Agreed - THIS IS NOT AN INVOICE

HAWB NO.: 8RN4917

# COMMERCIAL INVOICE

Kidde Technologies Inc.

Fire Protection  
4200 Airport Drive, NW  
Wilson, NC 27896-8630

11249580

Shipment/Commercial Invoice #

12-FEB-2024



UTC Aerospace Systems

<b>Ship To</b> 70188 ISRAEL AIRCRAFT LTD BEN GURION INTL ARPT ACCTS PAYABLE DEPT 4003 70100 LOD ISRAEL		<b>Sold To</b> 70188 ISRAEL AIRCRAFT LTD BEN GURION INTL ARPT ACCTS PAYABLE DEPT 4003 70100 LOD ISRAEL		<b>Freight Forwarder</b> AB4472 DHL GLOBAL FORWARDING JFK INTL ARPT BLDG 89 JAMAICA NY 11430-1608
<b>Waybill #</b> 12032150351506275		<b>Intermediate Consignee</b>		<b>Ultimate Consignee/End User</b> 3836 ISRAEL AEROSPACE INDUSTRIES LTD (IA) BEN GURION INTERNATIONAL AIRPORT 70100 TEL AVIV ISRAEL
<b>Incoterms</b> EXW Factory				
<b>Carrier</b> UPSGRD	<b>Payment Terms</b> Net 60 Days	<b>Package Qty</b> 1	<b>Export Reg.No.</b> FPPI U.S FF required to file EEI	

<b>Package ID #:</b> 1024671379			<b>Dimensions:</b> 13x13x13 IN			<b>Gross Weight:</b> 7 000 LB		
<b>Line</b> 10	<b>Material</b> 446582-1 <b>Customer Material</b> 446582-1 <b>Description</b> CARTRIDGE,POWER DEVICE/1AMP/1W	<b>Export Control #:</b> 1C992 d <b>License:</b> NLR <b>H.S. Code:</b> 8424900500 <small>Those 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 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.</small>	<b>Qty</b> 5	<b>UoM</b> EA	<b>Unit Value</b> [REDACTED]	<b>Ext Value</b> [REDACTED]	<b>CoO</b> US	<b>Delivery #:</b> 406453093 <b>Customer PO/Item #:</b> L000237373/60 1 <b>Sales Order/Item #:</b> 120130804/770  <b>Serial #</b> AGO1508, AGO1508, AGO1487, AGO1507, AGO1498
<b>Line</b> 20	<b>Material</b> 446582-3 <b>Customer Material</b> 446582-3 <b>Description</b> CARTRIDGE,POWER DEVICE/1AMP/1W	<b>Export Control #:</b> 1C992 d <b>License:</b> NLR <b>H.S. Code:</b> 8424900500 <small>Those 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 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.</small>	<b>Qty</b> 10	<b>UoM</b> EA	<b>Unit Value</b> [REDACTED]	<b>Ext Value</b> [REDACTED]	<b>CoO</b> US	<b>Delivery #:</b> 406453093 <b>Customer PO/Item #:</b> L000237373/64 1 <b>Sales Order/Item #:</b> 120130804/870  <b>Serial #</b> AGS0777, AGS0785, AGS0789, AGS0783, AGS0781, AGS0791, AGS0792, AGS0788, AGS0784, AGS0787

		<b>TOTAL Value</b>		<b>USD</b> [REDACTED]
<b>Hazardous Materials Warning:</b> Before you work with any component, assembly or product referred to in this document, read, understand and obey all safety instructions and take all appropriate safety precautions. These instructions include instructions from the manufacturer, the material safety data sheet(MSDS), the component maintenance manual, service information letters, all operators letters, and government regulations. An MSDS gives instructions on how you must safely use, keep and discard chemicals. Chemicals may cause injuries to you or make you sick. Personal injury or disease may result if safety instructions are not obeyed.		<b>GTIN</b> 0311  <b>L000237373</b> <b>1220321503515 06275</b>  All values are for customs purposes only.  <b>Signature:</b> <b>Name:</b> Larry Bryant		

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies to the airline.)

Shipper KIDDE TECHNOLOGIES INC 4200 AIRPORT DRIVE NW WILSON NC 27896 US 252-246-7126 USA		Air Waybill No.  Page 1 of 1 Pages Shipper's Reference Number 11249580		
Consignee ISRAEL AIRCRAFT LTD BEN GURION INTL ARPT ACCTS PAYABLE DEPT 4003 70100 LOD ISRAEL				
Two completed and signed copies of this Declaration must be handed to the operator		<b>WARNING</b>  Failure to comply with all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.		
<b>TRANSPORT DETAILS</b>				
This shipment is within the limitations prescribed for (delete non applicable) <table border="1"><tr><td><input checked="" type="checkbox"/> PASSENGER AND CARGO AIRCRAFT</td><td><input type="checkbox"/> CARGO AIRCRAFT ONLY</td></tr></table>	<input checked="" type="checkbox"/> PASSENGER AND CARGO AIRCRAFT	<input type="checkbox"/> CARGO AIRCRAFT ONLY	Airport of Departure	
<input checked="" type="checkbox"/> PASSENGER AND CARGO AIRCRAFT	<input type="checkbox"/> CARGO AIRCRAFT ONLY			
Airport of Destination		Shipment type. (delete non-applicable) <table border="1"><tr><td><input type="checkbox"/> NON-RADIOACTIVE</td><td><input checked="" type="checkbox"/> RADIOACTIVE</td></tr></table>	<input type="checkbox"/> NON-RADIOACTIVE	<input checked="" type="checkbox"/> RADIOACTIVE
<input type="checkbox"/> NON-RADIOACTIVE	<input checked="" type="checkbox"/> RADIOACTIVE			
<b>NATURE AND QUANTITY OF DANGEROUS GOODS</b> UN Number or Identification Number, proper shipping name, Class or Division (subsidiary risk), packing group (if required), and all other required information  UN0276, CARTRIDGES, POWER DEVICE, 1.4C// 1 (4G) FIBREBOARD BOX X 2 kg, N E.W. 11 g//134 EX-9702028 attached				
<b>Additional Handling Information</b> Packaged per IATA/ICAO regulations 24 Hr Emergency Contact 3E Company Tel 0017604763959 Code 334509				
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 labelled/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 LARRY BRYANT/LEAD SHIPPING CLERK Place and Date Wilson, NC 27896 US 02/12/2024 Signature (see warning above) 		





U.S. Department  
of Transportation

Research and  
Special Programs  
Administration

The US Department of Transportation  
Competent Authority for the United States

400 Seventh Street, S.W.  
Washington, D.C. 20590

CLASSIFICATION OF EXPLOSIVES

Based upon a request by A.L. Freeman on behalf of Walter Kidde Aerospace, Inc., 4200 Airport Drive N.W., Wilson, North Carolina, the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR).

U.N. PROPER SHIPPING NAME AND NUMBER: Cartridges, power device, UN0276

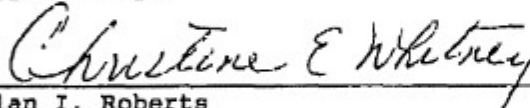
U.N. CLASSIFICATION CODE: 1.4C


<u>REFERENCE NUMBER</u>	<u>PRODUCT DESIGNATION/PART NUMBER</u>
-------------------------	--

EX-9702028

P/N 446582-1, P/N 446582-2, P/N 446582-3

Approved by:



  
Alan I. Roberts  
Associate Administrator  
for Hazardous Materials Safety

FEB 26 1997

(DATE)



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**1. IDENTIFICATION**

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**Product Name**

Actuating Cartridge, Power Device

**Part Numbers**

Small cup designs 262299-1, 262299-2, 446090-2, 446090-3, 446138, 446139, 446161, 446161-1, 446189-1, 446384, 446384-1, 446384-2, 446479, 446518-1, 446582-1, 446582-2, 446582-3, 446596, 446616, 446617, 446665, 446705, 446736, 446738, 446754, 446806, 446842 446842-1, 446850, 446924, 446963, 447408, 474351, 475031, 475198-1, 876296-3, 876561-3, 878492, 878492-1, 878492-2, 878493, 878493-1, 878493-2, 878562-2, 878563-2, A805300-12

**Recommended use of the chemical and restrictions on use****Identified uses**

Fire Extinguisher Actuator

**Restrictions on use**

Not user serviceable. Do not attempt disassembling

**Company Identification**

UTC Aerospace Systems

4200 Airport Drive, NW

Wilson, NC 27896

(253) 237-7004

**Customer Information Number****Emergency Telephone Number****3E Company**

1-800-451-8386 Site Code: 33067

**Issue Date**

July 28, 2015

**Supersedes Date**

July 9, 2013 Rev. A

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**

Explosives – Division 1.4

**Label Elements****Hazard Symbols**

Signal Word: Warning

**Hazard Statements**

Fire or projection hazard

**Precautionary Statements****Prevention**

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Do not subject to grinding/shock/friction

Wear face protection.





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**2. HAZARD IDENTIFICATION**

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**Response**

In case of fire: Evacuate area.

Explosion risk in case of fire.

Do NOT fight fire when fire reaches explosives.

Fight fire with normal precautions from a reasonable distance.

**Storage**

Store in accordance with local regulations.

**Disposal**

Dispose of contents/container in accordance with local regulation.

**Other Hazards**

None identified.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture contained in a sealed device

Component	CAS Number	Concentration
Lead Azide	13424-46-9	65 - 75%
Hexanitrostilbene	20062-22-0	10 - 20%
Zirconium	7440-67-7	5 - 15%
Potassium Perchlorate	7778-74-7	1 - 10%
Fluoropolymer binder	9011-17-0	0.1 - 1.0%
Graphite	7782-42-5	0.1 - 1.0%

**Note:** Material content is less than 0.72 grams per unit in a hermetically sealed capsule.

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**4. FIRST-AID MEASURES**

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**Description of necessary first-aid measures**

**Eyes**

No specific treatment is required as exposure is unlikely under normal conditions of use

**Skin**

No specific treatment is required as exposure is unlikely under normal conditions of use

**Ingestion**

No specific treatment is required as exposure is unlikely under normal conditions of use.

**Inhalation**

No specific treatment is required as exposure is unlikely under normal conditions of use

**Most important symptoms/effects, acute and delayed**

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated

**Indication of immediate medical attention and special treatment needed**

**Notes to Physicians**

Treat symptomatically



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**5. FIRE - FIGHTING MEASURES**

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**Suitable Extinguishing Media**

Use extinguishing agent appropriate to other materials involved. Keep containers and surroundings cool with water spray as containers may explode in the heat of a fire

**Specific hazards arising from the chemical**

Do not fight fires involving explosives. Product may explode. Evacuate the area and allow to burn or fight fire remotely. May release toxic fumes during a fire.

**Special Protective Actions for Fire-Fighters**

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

If devices are spilled from their shipping or storage container and are damaged, cordon off the area until the situation has been properly assessed. Wear appropriate protective clothing to shield from accidental detonation.

**Environmental Precautions**

None

**Methods and materials for containment and cleaning up**

Recover the devices by hand and inspect in a shielded area before repacking. Dispose of damaged detonators as described in Section 13. Suspect or damaged articles should be labeled and consigned for correct destruction.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wear appropriate protective clothing. Devices should be stored in the packaging supplied until required for use. Follow industry guidelines for handling explosives. Uninstalled actuators should only be handled by personnel trained to handle explosive devices. Static grounding is recommended when handling unshunted devices.

**Conditions for safe storage**

Keep away from friction, impact, heat, flame, radio transmitters, electric storms and electric currents, including those caused by static electricity. Store in original packaging in dry area at 50 to 85 °F (10 to 30°C). Keep away from other explosives. Do not disassemble detonators as this may cause them to explode.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist

**Lead Azide, as Pb**

ACGIH: TLV 0.05 mg/m<sup>3</sup> 8h TWA

OSHA: PEL 0.05 mg/m<sup>3</sup> 8h TWA

**Zirconium and Compounds as Zr**

ACGIH: TLV 5 mg/m<sup>3</sup> 8h TWA, 10 mg/m<sup>3</sup> 10-min STEL

OSHA: PEL 5 mg/m<sup>3</sup> 8h TWA



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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Graphite**

ACGIH TLV 2 mg/m<sup>3</sup> 8h TWA

OSHA PEL 15 mg/m<sup>3</sup> 8h TWA, total dust

5 mg/m<sup>3</sup> TWA, respirable fraction

**Appropriate engineering controls**

Work with device in a shielded area. Static grounding is recommended when handling unshunted devices

**Individual protection measures**

**Respiratory Protection**

Not normally required.

**Skin Protection**

Cotton gloves.

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields

**Body Protection**

Cotton clothing and conductive-soled shoes

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

**Physical State** Solid

**Color** N/A

**Odor** None

**Odor Threshold** Not applicable

**pH** Not applicable

**Specific Gravity** Not applicable

**Boiling Range/Point (°C/F)** Not applicable

**Melting Point (°C/F)** Not applicable

**Flash Point (PMCC) (°C/F)** Not applicable

**Vapor Pressure** Not applicable

**Evaporation Rate (BuAc=1)** Not applicable

**Solubility in Water** Not applicable

**Vapor Density (Air = 1)** Not applicable

**VOC (g/l)** Not applicable

**VOC (%)** Not applicable

**Partition coefficient (n-octanol/water)** Not applicable

**Viscosity** Not applicable

**Auto-ignition Temperature** 480°F

**Decomposition Temperature** No data available

**Upper explosive limit** Not applicable

**Lower explosive limit** Not applicable

**Flammability (solid, gas)** No data available

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

No data available



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**10. STABILITY AND REACTIVITY**

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**Chemical Stability**

Actuators are stable under normal conditions of operation.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur

**Conditions to Avoid**

Exposure to low level electric current - impact - heat- static - shock - radio frequency (RF) energy

**Incompatible Materials**

Corrosive materials - copper tools - materials that can build up an electrostatic charge

**Hazardous Decomposition Products**

Oxides of carbon – lead compounds – zirconium compounds – potassium compounds

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**11. TOXICOLOGICAL INFORMATION**

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The chemicals contained in the actuator are hermetically sealed and pose no hazard under normal conditions of operation and storage. The information below is applicable only if the device ruptures before use.

**Acute Toxicity**

No relevant studies identified.

**Specific Target Organ Toxicity (STOT) – single exposure**

No relevant studies identified.

**Specific Target Organ Toxicity (STOT) – repeat exposure**

Lead Azide: May cause damage to organs through prolonged or repeated exposure. (route of exposure: inhalation)

**Serious Eye damage/Irritation**

No relevant studies identified

**Skin Corrosion/Irritation**

No relevant studies identified

**Respiratory or Skin Sensitization**

No relevant studies identified.

**Carcinogenicity**

Lead Azide: IARC 2A : Probably carcinogenic to humans, NTP. Anticipated Carcinogen

**Germ Cell Mutagenicity**

No relevant studies identified.

**Reproductive Toxicity**

Lead Azide: May damage fertility or the unborn child (route of exposure: oral)

**Aspiration Hazard**

Not an aspiration hazard



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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Devices are sealed and present no ecological hazard to the environment.

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified

**Other adverse effects**

No relevant studies identified

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

This material should be disposed of by a competent body familiar with explosive materials in accordance with all applicable local and national regulations. Ensure packaging is free of explosive material prior to disposal.

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**14. TRANSPORT INFORMATION**

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<b>DOT CFR 172.101 Data</b>	Cartridges, Power Device, (1 4S) UN0323, PGII
<b>UN Proper Shipping Name</b>	Cartridges, Power Device
<b>UN Class</b>	(1.4S)
<b>UN Number</b>	UN0323
<b>UN Packaging Group</b>	II
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.
<b>OR:</b>	
<b>DOT CFR 172.101 Data</b>	Cartridges, Power Device, (1.4C) UN0276, PGII
<b>UN Proper Shipping Name</b>	Cartridges, Power Device
<b>UN Class</b>	(1.4C)
<b>UN Number</b>	UN0276
<b>UN Packaging Group</b>	II
<b>Classification for AIR Transportation (IATA)</b>	Consult current IATA Regulations prior to shipping by air.

**Additional Information:** This material may be shipped under DOT Competent Authority permission issued to either Kidde Aerospace or the U. S. Department of Defense. See Kidde Aerospace website for full information on Kidde packaging procedures.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

All components of this product are in compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.



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**15. REGULATORY INFORMATION**

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**Canada DSL Inventory**

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL) or the Nondomestic Substance List

**SARA Title III Sect. 311/312 Categorization**

Pressure Hazard (Explosive)

**SARA Title III Sect. 313**

This product contains the following chemicals listed in Section 313 at or above de minimis concentrations:  
Lead compounds

**California Proposition 65**

This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

ECHA: European Chemicals Agency

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: July 28, 2015

Replaces: July 9, 2013 Rev. A

Changes made: Updated to GHS Classification

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC

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