

**Cartridges for Power Devices****1. Identification of the substance/preparation and the company/undertaking****1.1 Identification of the substance/preparation**

Not Applicable

1.2 Use of the substance/preparation

CARTRIDGES FOR POWDER ACTUATED CARTRIDGE TOOLS

1.3 Company undertaking preparation**JCP Construction Products**Unit 07 Princess Court, Horace Rd,
Kingston, Surrey KT1 2SL**1.4 Telephone number for emergencies**

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2. Hazards identification

None likely due to nature of sealed cartridge

3. Composition/information on ingredients

Description	Cas Number	EINECS Number	Percentage	R-Phrases
Zinc powder (pyrophoric)	7440-66-6	231-175-3	15-32	15-17-50/53
Nitrocellulose	9004-70-0		7-13	2
Glycerol trinitrate	55-63-0	200-240-8	0.5-2	3-26/27/28-33-51/53
Dibutyl phthalate	84-74-2	201-557-4	0.5-2	61-62-50
Lead	15245-44-0	239-290-0	0.1-1	3-20/22-33-50/53-61-62
Copper	7440-50-8	231-159-6	50-<100	

4. First Aid measures

Inhalation	Ensure adequate supply of fresh air In case of symptoms seek medical treatment
Skin contact	In case of contact with skin wash thoroughly with soap and water In case of symptoms seek medical treatment
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advise
Ingestion	Seek medical advise immediately

5. Fire fighting measures

- 5.1 Suitable extinguishing media** Foam, Dry Powder. Water Spray Jet, Carbon Dioxide
- 5.2 Unsuitable extinguishing media** Water Jet
- 5.3 Special exposure hazards** Unknown risk of formation of pyrolysis products
- 5.4 Special protective equipment for firefighters** Compressed air breathing apparatus. Heat/fire exposure suits
- 5.5 Additional information**
Cool containers at risk with water spray
Fire residue and contaminated water must be disposed of according to local regulations

6. Accidental release measures

- 6.1 Personal protection/precautions**
Remove personnel to place of safety
- 6.2 Environmental precautions**
Do not discharge in drains/surface water/ground water
- 6.3 Method of clean up**
Scrape up waste using none metallic tools

Place in a secure container
Wash down area but do not allow water to enter water courses or drains
Contact local waste authority for disposal

Cartridges for Power Devices

7. Handling and Storage

7.1 Handling

No special measures necessary if used correctly. Keep in a cool place, out of direct sunlight

7.2 Storage

Store in original packaging in a well ventilated area
 Keep away from sources of ignition
 No smoking
 Do not store with oxidising or self-igniting materials

8. Exposure controls/Personal protection

8.1 Exposure Control Use only in well ventilated area

8.2 Personal protection

Respiratory Not applicable
Ingestion Unlikely during normal use.
Skin protection Not applicable
Eye Protection Wear safety glasses when in use with Cartridge Tool. Follow all Cartridge Tool guidelines
Hygiene Do not eat smoke or drink
 Wash hands before breaks and after work

9. Physical/Chemical properties

Appearance Cylindrical Brass Cartridge
Colour Bronze
Odour Odourless
Viscosity N/A
Boiling Point N/A
Flash Point N/A
Auto-Flammability N/A
Melting Point Not determined
Flammability N/A
Vapour Pressure N/A
Partition Coefficient N/A
Density Not determined
pH value N/A
Solubility in water Not soluble
Oxidising Properties No
Auto Ignition temperature N/A
Decomposition temperature N/A

10. Stability and reactivity

Hazardous reactions N/A
Hazardous Decomposition: Toxic gases and vapours. Toxic metal compounds

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11. Toxicological information

Acute oral toxicity	Not determined
Acute dermal toxicity	Not determined
Acute inhalation toxicity	Not determined
Irritant effect on eyes	Not determined
Irritant effect on skin	Not determined
Sensitisation	Not determined
Sub acute toxicity	Not determined
Chronic toxicity	Not determined
Mutagenicity	Not determined
Reproduction toxicity	Not determined
Carcinogenicity	Not determined
Experiences made in practice	None
General remarks	Follow guidelines relating to use of Cartridge Tools

12. Ecological information

Do not discharge into drains or the environment.
Ecological Data not available.

13. Disposal considerations

Product	Dispose of as explosive waste. Do not incinerate. Refer to local authority guidelines
Packaging	Uncontaminated packaging can be sent for recycling

14. Transport information

Supply label:	Cartridge Power Device Class 1.4S.
	U.N.number 0323
	IATA Class 1.4S
	IMDG Class 1.4S
	ADR Class 1.4S

15. Regulatory information

Labelling: Explosive 1.4S

Notification of Local Authority is required when product is stored for resale.
Refer to BS4078 with regard to storage and use on site.

16. Other information

R-Phrases

R2	Risk of explosion by shock, friction, fire or other sources of ignition
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition
R15	Contact with water liberates extremely flammable gases
R17	Spontaneously flammable in air
R20/22	Harmful by inhalation and if swallowed
R33	Danger of cumulative effects
R50/51/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility

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