



Date : 15/09/2013
Version : 1

SAFETY DATA SHEET

Powerloads

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

1.1 Product identifier

Product name : Powerloads
Product code : 130
Product description : Not available.
Product type : Solid.
Other means of identification : Not available.

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

Fire arm cartridge.

As sold, this product, metal cartridge is shock sensitive but the SDS is written to cover its hazards also under normal use when toxic metal powder is liberated in the air.

1.3 Details of the supplier of the safety data sheet

Supplier : CCI/SPEER
2299 Snake River Avenue
Lewiston, Idaho 83501
Tel: (208) 746-2351 (24 HOURS)

e-mail address of person responsible for this SDS : cciexpert@atk.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : CHEMTREC International: +1(703) 527-3887
Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Expl. 1.4, H204
Acute Tox. 3, H301
Acute Tox. 2, H310
Acute Tox. 3, H331
Repr. 1A, H360D (Unborn child)

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : T+; R26/27/28
R33



SECTION 2: Hazards identification

Human health hazards : Very toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Fire or projection hazard.
Fatal in contact with skin.
Toxic if swallowed or if inhaled.
May damage the unborn child.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
P280 - Wear protective gloves. Wear face protection. Wear protective clothing.
P250 - Do not subject to grinding, shock, friction or any rough handling.
P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
P262 - Do not get in eyes, on skin, or on clothing.

Response : P372 - Explosion risk in case of fire.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or physician.
P302 + P310 - IF ON SKIN: Immediately call a POISON CENTRE or physician.

Storage : P405 - Store locked up.

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

Hazard symbol or symbols :



Indication of danger : Very toxic

Risk phrases : R26/27/28- Very toxic by inhalation, in contact with skin and if swallowed.
R33- Danger of cumulative effects.

Safety phrases : S28- After contact with skin, wash immediately with plenty of [***].
S36/37- Wear suitable protective clothing and gloves.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous ingredients : Glycerol trinitrate [>40 % phlegmatiser]

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

Special packaging requirements



SECTION 2: Hazards identification

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Copper	EC: 231-159-6 CAS: 7440-50-8 Index: ID850	>=25 - <35	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Zinc	EC: 231-175-3 CAS: 7440-66-6	>=2.5 - <25	F; R15, R17 N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Glycerol trinitrate [$>40\%$ phlegmatiser]	EC: 200-240-8 CAS: 55-63-0 Index: 603-034-01-7	>=7 - <25	E; R3 T+; R26/27/28 R33 N; R51/53	Expl. 1.1, H201 Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 STOT RE 2, H373 Aquatic Chronic 2, H411	[1]
Barium nitrate	EC: 233-020-5 CAS: 10022-31-8 Index: 056-002-00-7	>=1 - <3	O; R8 T; R25 Xn; R20 Xi; R36	Ox. Sol. 2, H272 Acute Tox. 3, H301 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
Lead 2,4,6-trinitro-m-phenylene dioxide ($\geq 20\%$ phlegmatiser)	EC: 239-290-0 CAS: 15245-44-0 Index: 609-019-01-1	>=1 - <2.5	E; R3 Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50/53	Expl. 1.1, H201 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1A, H360Df (Unborn child and Fertility) STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.



SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
- Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : After ammunition has been fired, dust, vapors, and/or fumes may cause irritation.
- Inhalation** : Very toxic by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Projectiles from fired ammunition can cause puncture wounds.
- Ingestion** : Very toxic if swallowed.

Over-exposure signs/symptoms

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : **ACCIDENTAL INJURY FROM FIRED CARTRIDGE:** Fired ammunition can create serious injury, possibly both entrance and exit wounds. To avoid serious injury, use ammunition only in good condition and originally chambered for a particular caliber. Always keep the barrel free of any obstruction. If the gun fails to fire, a delayed firing may occur, or the gun may fire upon being opened. Keep gun muzzle pointed in a safe direction. Wait 30 seconds. Avoid exposure to breech. Carefully unload. A fired bullet has an extremely long range and can cause serious injury or death. Always be sure of the backstop, and practice safe muzzle control at all times. Avoid firing at surfaces that could result in a ricochet, such as water, rocks, or any other hard, flat surface.



SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Explosive in case of shock.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Spill : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.



SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso II Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
H2: Acute toxicity 2 any route of entry or Acute toxicity 3 Inhalation/Dermal route of entry	50	200
P1b: Explosives (Division 1.4)	50	200
C1: Very toxic	5	20
C4: Explosives (Division 1.4)	50	200

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Barium nitrate	EU OEL (Europe, 12/2009). TWA: 0.5 mg/m ³ , ((as Ba)) 8 hours.
Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser)	EU OEL (Europe, 12/2009). TWA: 0.15 mg/m ³ 8 hours.



SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Solid.
Colour	: Not available.
Odour	: Not available.
Odour threshold	: Not applicable.
pH	: Not applicable.
Melting point/freezing point	: Not applicable.
Initial boiling point and boiling range	: Not applicable.
Flash point	: Not available.
Evaporation rate	: Not applicable.
Flammability (solid, gas)	: Highly flammable in the presence of the following materials or conditions: oxidising materials.
Burning time	: Not available.
Burning rate	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not applicable.
Vapour density	: Not applicable.
Relative density	: Not applicable.
Solubility(ies)	: Not applicable.
Solubility in water	: Not applicable.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not applicable.
Explosive properties	: Extremely explosive in the presence of the following materials or conditions: open flames, sparks and static discharge. Explosive in the presence of the following materials or conditions: heat.
Oxidising properties	: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable. However, because of the design of ammunition and its components, partial detonation upon impact or intense heat may occur. Mass detonation will not occur.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).



SECTION 10: Stability and reactivity

10.5 Incompatible materials : Reactive or incompatible with the following materials: oxidising materials, reducing materials, combustible materials, metals, acids and alkalis.

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

Product/ingredient name	Result	Species	Dose	Exposure
Glycerol trinitrate [>40 % phlegmatiser]	LD50 Oral	Rat	105 mg/kg	-
barium nitrate	LD50 Oral	Rat	355 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oral	62.5 mg/kg
Dermal	62.5 mg/kg
Inhalation (dusts and mists)	0.625 mg/L

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc	Skin - Mild irritant	Human	-	72 hours 300 µg Intermittent	-
Glycerol trinitrate	Skin - Mild irritant	Rabbit	-	0.5 mL	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitisation

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : After ammunition has been fired, dust, vapors, and/or fumes may cause irritation.

Inhalation : Very toxic by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Projectiles from fired ammunition can cause puncture wounds.

Ingestion : Very toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.



SECTION 11: Toxicological information

Ingestion : No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : Danger of cumulative effects.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Copper	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 2.1 µg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute IC50 13 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/L Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/L Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/L Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Zinc	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
	Acute EC50 106 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 10000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute IC50 65 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	4 days
	Acute LC50 65 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 68 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.21 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic EC10 27.3 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Chronic EC10 59.2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 9 mg/L Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
Glycerol trinitrate [>40 % phlegmatiser]	Chronic NOEC 178 µg/l Marine water	Crustaceans - Palaemon elegans	21 days
	Chronic NOEC 2.6 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Acute EC50 0.4 mg/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours



SECTION 12: Ecological information

	Acute EC50 50000 µg/l Fresh water Acute LC50 32000 µg/l Fresh water Acute LC50 1380 µg/l Fresh water	Crustaceans - Gammarus fasciatus Daphnia - Daphnia magna Fish - Lepomis macrochirus	48 hours 48 hours 96 hours
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12.2 Persistence and degradability

There is no data available.

12.3 Bioaccumulative potential

There is no data available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

Mobility : There is no data available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN0323	UN0323	UN0323	UN0323
14.2 UN proper shipping name	Cartridges, Power Device (Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser))	Cartridges, Power Device (Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser))	Cartridges, small arms.	Cartridges, Power Device (Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser))
14.3 Transport hazard class(es)	1.4 	1.4 	1.4 	1.4 
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	Yes.	Yes.	Yes.	No.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-B, S-X	The environmentally hazardous substance mark may appear if required by other transportation regulations.

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser)	Toxic to reproduction	Candidate	ED/77/2011	19/12/2011

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.



SECTION 15: Regulatory information

Other EU regulations

Europe inventory : Not determined.

Priority List Chemicals (793/93/EEC) : Listed

Integrated pollution prevention and control list (IPPC) - Air : Listed

Integrated pollution prevention and control list (IPPC) - Water : Listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Lead 2,4,6-trinitro-m-phenylene dioxide (≥ 20 % phlegmatiser)	-	-	Repr. Cat. 1; R61	Repr. Cat. 3; R62

Seveso II Directive

This product is controlled under the Seveso II Directive.

Danger criteria

Category

H2: Acute toxicity 2 any route of entry or Acute toxicity 3 Inhalation/Dermal route of entry
 P1b: Explosives (Division 1.4)
 C1: Very toxic
 C4: Explosives (Division 1.4)

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 vPvB = Very Persistent and Very Bioaccumulative

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

Expl. 1.4, H204
 Acute Tox. 3, H301
 Acute Tox. 2, H310
 Acute Tox. 3, H331
 Repr. 1A, H360D (Unborn child)

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Expl. 1.4, H204 Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 3, H331 Repr. 1A, H360D (Unborn child)	Expert judgment Calculation method Calculation method Calculation method Calculation method



SECTION 16: Other information

Full text of abbreviated H statements	: H201 H204 H272 H300 (oral) H301 (oral) H302 (oral) H310 (dermal) H319 H330 (inhalation) H331 (inhalation) H332 (inhalation) H360D (Unborn child) H360Df (Unborn child and Fertility) H373 H400 H410 H411	Explosive; mass explosion hazard. Fire or projection hazard. May intensify fire; oxidiser. Fatal if swallowed. Toxic if swallowed. Harmful if swallowed. Fatal in contact with skin. Causes serious eye irritation. Fatal if inhaled. Toxic if inhaled. Harmful if inhaled. May damage the unborn child. May damage the unborn child. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	: Acute Tox. 1, H310 Acute Tox. 2, H300 Acute Tox. 2, H310 Acute Tox. 2, H330 Acute Tox. 3, H301 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Expl. 1.1, H201 Expl. 1.4, H204 Eye Irrit. 2, H319 Ox. Sol. 2, H272 Repr. 1A, H360D (Unborn child) Repr. 1A, H360Df (Unborn child and Fertility) STOT RE 2, H373	ACUTE TOXICITY (dermal) - Category 1 ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 EXPLOSIVES - Division 1.1 EXPLOSIVES - Division 1.4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 OXIDISING SOLIDS - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 1A TOXIC TO REPRODUCTION (Unborn child and Fertility) - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Full text of abbreviated R phrases	: 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. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. R26/27/28- Also very toxic by inhalation, in contact with skin and if swallowed. R20/22- Also harmful by inhalation and if swallowed. R33- Danger of cumulative effects. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Full text of classifications [DSD/DPD]	: E - Explosive F - Highly flammable Repr. Cat. 1 - Toxic to reproduction category 1 Repr. Cat. 3 - Toxic to reproduction category 3 T+ - Very toxic Xn - Harmful N - Dangerous for the environment	
History		
Date of issue (dd/mm/yyyy)	: 15/09/2013	
Version	: 1	
Revised Section(s)	: Not applicable.	

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Powerloads

SECTION 16: Other information



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